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## JO UREA

OF

## THE ROYAL ASIATIC SOCIETY.

Art. I.-The Apology of Al Windy. An Essay on its Age and Authorship. By Sir William Muir, K.C.S.I., LL.D.

Al Bîrûni, in bis Vestiges of Ancient Nations, written A.D. 1000 (A.H. 390), while describing the customs of the Sabeans, cites the authority of Ion Ishâc al Kindly, the Christian, in these words:
"Likewise Abd al Masih ion Ishâc al Kinds, the Christian, in his reply to the Epistle of Abdallah ion Ismail al Hâshinņ, relates of them (the Sabeans) that they are notorious for Human sacrifice, but that at present they are not able to practise openly the same." ${ }^{1}$

A work answering the above description has recently been published by the Turkish Mission Aid Society, in Arabic, under the following title: The Epistle of Abdallah ion Ismail al Hâshimy to Abl al IKasîh ion Ishâc al Kindly, inviting him to embrace Islam; and the Reply of Abd al Masih, refuting the same, and inviting the Hâshimite to embrace the Christian Faith.

The book, we learn from a Note at the end, was printed from two MSS. obtained, one in Egypt, the other in Constantinople. Neither has the name of the copyist, nor the year of transcription. They are both said in this note, to be full
${ }^{1}$ Chronology of Ancient Nations, p. 187, by Dr. Sachau, London, 1879.

(اي الصابئه) في جوابلث شن كتاب
 VOL. SIT.-[NETV SERIES.]
of errors and discrepancies. But the book has been edited with care and intelligence, and as a whole may be regarded as a correct reproduction of the original. The editor certainly deserves great credit for the way in which the task is executed. I proceed to give a brief account of the work.

The letters, themselves anonymous, are preceded by a short preface:
" In the Name of God, the One, the Eternal.
"It is related that in the time of Abdalaif al Mâần, there lived a man of Hâshimite descent, and of Abbasside lineage, nearly related to the Caliper. The same was famed, among high aud low, for devotion to Islam, and the careful observance of all its ordinances. This person had a friend, learned and virtuous, endowed with the gifts of culture and science, of pure and noble descent from the Beni Kinda, and distinguished for his attachment to the Christian faith. The same was in the service of the Caliph, and nigh unto him in honour and dignity. Now these two men had a mutual love, and an implieit trust in the friendship of each other. Al Mîmûv, Commander of the Faithful, moreover, and his whole Court, were aware of it. But we are averse from mentioning their names, lest it should do harm. The Hîsminite wrote to the Christian a letter, of which this is a copy." ${ }^{1}$
${ }^{1}$ I subjoin the Arabic text:
بسم اللَّ الوا حد إلصهد







 لعاة هس العلل نكتيب الهاشهي الي النصراني كتابٌا هذله نسخته.

The Hàshimite's letter follows immediately on this. He reminds his friend that he is himself well versed in the Scriptures, and in the praetiees and doetrines of tho various Christian seets; and he proeceds to explain the teaehing of Islam, and to press its aeceptanee on him. He begs of his friend to reply without fear or favour, and promises the guaranteo of the Caliph that no harm should befall him for any freedom of speeeh in diseussing the merits of their respeetive faiths. The reply of Al Findy is introduced thus :

## And the Christian answered him:

In the name of God most mercifel!
O Lord make my task easy: let it not be hard: and fulfil the same with thy blessing.
"To N-, son of N-, from M—, son of M—, the least of the serrants of the Messiah. Peace, Mercy, and Grace be upon thee, and upon all mankind! Amen."

And thereupon he proceeds to take up his friend's arguments, point by point.

The Moslem's letter occupies only treenty-two pages ; Al Kindy's reply the remaining 142 . While our $\Lambda$ pologist speaks respectfully of the person of Mahomet, he vigorously denounces his claims as a prophet, and attaeks the whole system of Islam with uncompromising severity. The latter part of the Apology is devoted to the proofs of Christianity, and our Saviour's life and teaching. The reasoning is not, to our ideas, uniformly sound; nor are the faets (throughout deeply tinged with Alyite and Abbasside tendeneies), especially those connected with the life of the Prophet and the early Caliphate, always aceurate. But upon the whole the argument is eonceived with great ability and foree, and the language throughout is flowing, rieh, and eloquent. Many passages, in partieular the philippic on Jehâd and Nartyrdom, are singularly powerful and impassioned. It is clear that the Apology ean have proceeded from the pen of no ordinary seholar.

There is no doubt that this book is substantially the same as that referred to by Al Bîrûni. At page 26 will be found
the passage quoted by him as noticed at the beginning of this paper. Our Apologist there writes:
"We know from the Book of Genesis that Abraham lived with his people four-score years and ten, in the land of Harrân, worshipping none other than Al Ozza , an idol famous in that land, and adored by the men of Harrân under the name of the Moon, which same custom prevails among them to the present day. They conceal no part of their ancestral practices, sare only the sacrifice of human beings. They cannot now offer up human sacrifices openly; but they practise the same in secret."

In the brief Preface, it will have been observed that the correspondence is said to have taken place at the Court of AL Mâmún (198-218 a.h.). At the elose of the Egyptian MS. is the following Note:
"It is related that the subject of these two Epistles reached the ears of Al Mâmûn; whereupon he sent for them, and had them both read to him without stopping, from beginning to end. He then declared that he had no ground for interference, nor any cause against the Christian apologist. There are (added the Caliph) tro religions-one for this world, the Magian, following the precepts of Zoroaster ; the other for the world to come-the Ciristian, following the precepts of the Messiah. But the true religion is that of the Unity taught by our Master. That verily is the religion which serveth both for this life and the next." -p .165.

This note is wanting in the Constantinople MS. It is no doubt an addition to the Treatise as originally put forth; but of what antiquity and authority there is no ground for saying.

It is otherwise with the short Prefaee, which is the same in both MSS., and probably formed the Introduetion to the Discussion as it at first appeared. Excepting, however, that it gives the name of the Caliph, the preface adds nothing to what we gather from the Epistles themselves of the person-

ality of the disputants, namely, that both lived at the Court of the Caliph; that the Mahometan was the cousin of the Caliph, a Hâshimitc of Abbasside lineage; and that the Christian was a learned man at the same Court, of distinguished descent from the tribe of the Beni Kinda, and held in houour and regard by Al Mâmûn and his nobles. But the names and further identification of the disputants are withheld, from motives of prudence,-"in case it might do harm."

From the passage in Al Bîrunni, however, it is evident that in his time ( 390 A.н.) the Discussion was currently rcceived under the title, "The Reply of Abd al Masîh Ibn Ishâc al Kindy, to the Epistle of Abdallah ion Ismaîl al Mâshimy." The epithets Abdallah and Abd al Masîh arc of course noms de pleme. It is possible that the other nauncs (in italics) are so also;-Isaac and Ishmael symbolizing the Christian and Moslem antagonists.

Whether this be so or no, the name of Ion Ishâc al Kindly has occasioned the surmise in some quarters that our Apologist was the samc as the famous "Philosopher of Islam," Abu Yûsuf ibn Ishâc al Kindy, who also flourished at the Court of Mâmûn and his Successor. There can, however, be little or no doubt that the famous Al Kindy was a Mahometan by profession. As a Failsûf, or philosopher, he was, it may be, not a very orthodox professor; but, at any rate, there is no reason to suppose that he had any leaning towards Christianity: on the contrary (as we shall see below), he wrote a treatise to refute the doctrine of the Trinity. His father, or grandfather, was governor of Kûfa, a post that could be held by none other than a Mahometan; and Al Asháth, the renowned chief of the Beni Kinda, who was converted in the time of Mahomet, and married Abu Bekr's sister, is said to have been his ancestor; whereas our Apologist glories in his Christian ancestry.

On the philosopher Al Kindy, de Sacy gives us an interesting note. After showing that D'Herbelot was mistaken in calling him a Jew, and citing the authority of Abul Faraj and Ibn Abi Oseiba for regarding him as a Mussul-

[^0]man, he mentions three considerations which might be urged against this view. First: In the catalogue of his writings there is none relating to the Coran or to Islam. Sccond: Al Kindy was one of the translators of Aristotle, familiar with Greek and Syriac ; and men of that stamp were mostly Christians. Third: In the Bibliothèque Impériale there is a MS. (257) entitled A Defence of the Christian Religion (apparently identical with our Apology), written in Syriac characters, but in the Arabic language, the author of which is named Yác $\hat{c} b$ Kindi.
"Of these objections (continues dc Sacy) the last alone morits attention; but it may be met by these counter-considerations. In the Preface the author is not named. The work is only said to hare been written by a person attached to the court of Al Mâmûn, a Christian of Kindian descent. It is called 'The Treatise of Al Kendy, the Jacobite.' ${ }^{1}$ It is most likely by a misunderstanding, or with the view of increasing thereby the value of the work, that it has bcen ascribed to the authorship of Yácûb Kindy. This suspicion acquires greater force, as in the cataloguc of Syrian writers, written by Ebed Jesu, we find a certain Kendi named as the author of a rcligious treatise; and the Kendi in question (the same without doubt as the writer of our Syrian MS. (257), or at least whose name has been assumed as such) lived, according to an historian cited by Assemanus, about 890 A.d. ( 280 A.II.), a date to which it is little likely that Yacub Kendi surrived. . . . For the rest we may suppose that Kendi, in pursuit of his philosophical studies, had embraced opinions opposed to Mahometan orthodoxy, and that this led to his faith being suspected-a thing which has occurred to many Christian philosophers, and among the Jews happened to the famous Maimonides." ${ }^{2}$

But this Kendi of Ebed Jesu, whoever he was, could not possibly have been our Apologist, for he flourished towards the end of the third century of the Hegira, whereas the Apology (as I hope to establish below) was certainly written during the reign of Nl Mâmûn, near the beginning of that century. The passage from $\Lambda$ ssemanus, referred to by de
${ }^{1}$ كتاب الكندي اليعقوبي. This, of course, is a mistake, as our A pologist was a" staunch Nestorian. There may luve been some other Keudy a Jacobito; or rather the epithet ibn Ficûb has been so misunderstood and misapplied.
${ }^{2}$ Relation do L'Egypto par Abd Allatif, M. de Sacy, I'aris, 1810, p. $48 \%$

Saey, consists of a note on chapter exlii. of Ebed Jesu's Catalogue (in Syriae rerse) of Christian authors. The verse and note are as follows:
[Verse.]-"Candics fecit ingens volumen Disputationis et Fidei.
[Note.]-"Candius, اب. كن.ا', Ebn Canda, hoc est Candiae filius; who flourished under the Nestorian Patriarch Joannes IV., A.D. 893. Others refer the authorship to Abu Yûsuf Yâcûb ibn Ishâc al Kindi; but he, according to Pocock and Abul Faraj, was a Mahometan . . . But the Candius whom Ebed Jesu mentions was a Nestorian, not a Mahometan, and wrote in the Syrian lauguage, not in Arabic." ${ }^{1}$

If any doubts were entertained of the religious prineiples of A bu Yûsuf ibn Ishâe, they must be set at rest by the fact that he wrote a treatise to disprove the doctrine of the Trinity. It was answered by Yahya ibn Adî, a Jacobite writer, whose pamphlet appears as No. 108 in Steinschneider's list. ${ }^{2}$ The same is in the Vatican Library (Codex, 127, f. 88), and was kindly copied out for me by Prof. Ign. Guidi. In this tract, the attack of Ibn Ishâc is quoted and replied to passage by passage ; and the tenor of the writing leares no doubt of the antagonism of the writer to Christianity.

On all these grounds, we must elearly look for the author of our Apology elsewhere. ${ }^{3}$ But before doing so, it may be expedient to notice the conjecture of de Saey, that the Apology may have been aseribed to Abu Yûsuf ibn Ishâe al Kindy, either by a misunderstanding, or as a pious fraud with the view of gaining for it greater celebrity and weight.

As to the supposed misunderstanding, it seems doubtful whether, in reality, the Apology ever was so ascribed, exeept-

[^1]ing as a mere conjecture in modern times. The misunderstanding, whatever it may have been, has arisen apparently from the similarity of name and tribe, as given in the quotation by Al Bîrûni.

The notion that, with the view of gaining greater weight, a paper purporting to be in refutation of Islam and establishment of Christianity, should have been ascribed to a Mahometan philosopher, will hardly, I think, be seriously held. What possible advantage could have been expected from an attempt to palm off a polemical work of the kind on an enemy of the Christian faith, who had himself attacked one of its cardinal doctrines? There is, moreover, no trace in the Apology itself of any design to rest upon the authority of a great name. The writer's identity, as we have seen, is carefully suppressed. The only thing common to the "Philosopher" and the Author, which appears throughout the work, is that the Author was learned, and went by the tribal title of Al Kindy; but that tribe was surely numerous and distinguished enough to embrace other men of lettcrs and noble birth at the Court of Al Mâmûn. Lcaving now thc "Philosopher," we may proceed, therefore, to consider the internal evidence furnished by the book itself of its age and authorship.

I have said that the name of Al Mânûn, though given in the Preface, occurs nowhere in the Epistlcs themselves. But the manner in which the Caliph is throughout referred to, accords entirely with the assumption that they were written at his Court. He is spoken of as the paternal cousin of the Moslem writer; his just and tolcrant sway is repeatedly acknowledged by Al Kindy; the descent of the Dynasty from the family of Mahomet is over and again referred to, and our Author prays that the Empire may long be perpetuated in his Patron's line. All this is perfectly natural, and in entire consistency witl the ascription of the work to a courtier in the reign of Al Mâmûn.

Not less remarkable are the propricty and accuracy of all the historical notices. For example, when tracing the fate of the four Examplars of the Coran deposited by Othmàn in the chicf citics of the Empirc, our Apologist tclls us that the
copy at Medina disappeared in "the reign of terror, that is, in the days of Yezîd ibn Muâvia" ; and that the manuseript at Mccea was lost or burnt in the sack of that city by Abu Sarâya, "the last attack made upon the Káaba." This is exactly what a person writing some fifteen ycars after the cenent, and in the reign of Al Mâmûn, would say ; for the siege of Mecca was then, in point of faet, the last which had taken place, under the insurgent $A$ bu Sarâya, in the year 200 A.ir. Had the Apology been written later on, say in the fourth century, the "latest attack" on Meeea would not havc been that of Abu Sarâya, but of Solcinân Abu Tâhir in 317 a.h. So also, in illustrating the rapine and plunder of the early Moslem eampaigns, Al Kindy mentions, as of a similar predatory and ravaging eharacter, the insurrection of Bâbok Khurramy, and the danger and anxiety it oceasioned thereby " to our lord and master the Commander of the Faithful." This rebellious leader, as we know, had raised the standard of revolt in Persia and Armenia some years before, routed an army of the Caliph, and long maintained himself in opposition to the Imperial forces; and the notice, as one of an impending danger then occupying men's minds, is precisely of a kind which would be natural and apposite at the assumed time, and at no other. ${ }^{2}$ Once more, in challenging his friend to produce a single prophecy which had been fulfilled since the era of Nahomet, he specifies the time that had elapsed as "a little over 200 years," and uses the exact expression to denote the period, which would fall from the pen of a person writing about the era, 215 A.H., when we assume the work to have been written. ${ }^{3}$ While the incidental references to dates and historical facts are thus in exact and happy keeping with the professed age of the

[^2]work, there is throughout not a single anachronism or foreed and unnatural allusion,-which in a person writing at a later period, and travelling over so large a field, would hardly have been possible.

Still more striking are the aptness and propriety of the politieal allusions. These are in the strictest affinity, not only with the traditions of an Abbasside Dynasty, but of a Court whieh had beeome partizan of the Alyite faetion, which freely admitted Motázelite or latitudinarian sentiments, and which had just deelared the Coran to be created and not eternal. The Omeyyad raee are spoken of with virulent reprobation; the time of Yezîd is named the "reign of terror "; and Hajjàj, with his tyranny and the imputation of his having corrupted the Coran, is referred to in the bitter terms that were current in that day. Abu Bekr, Omar, and Othmân are treated as usurpers of the Divine right of sueeession whieh (it is implied) vested in Ali. I need hardly point out how naturally all this aeeords with the sentiments predominating at the Court of Al Mâmûn; but whieh eertainly would not have been tolerated some forty or fifty years later. ${ }^{1}$

The freedom of our Author's treatment of Islam would have been permitted at none but the most latitudinarian Court. He easts aside the prophetieal elaims of Mahomet, eensures some of his aetions in the strongest language, reprobates the ordinances of Islam, especially those relating to women, and condemns Jehâd with seathing denuneiation. It is diffieult to eonceive how sueh plain-speaking was tolerated even at the Court of Al Mâmûn; at any other, the Apology would have had small chance of seeing the light, or the writer of escaping with his head upon his shoulders. That the work did (as we know) gain eurrency ean only have been due to its appearanee at this partieular era.

These remarks apply with very speeial foree to the section on the Coran, since it seems highly probable that the Apology was written shortly after the famous edict of Ml Mâınûn whieh denied the eternity of the Moslem Scriptures. The eomposition of the Coran is assailed by

[^3]our Author in the most incisive style. First, a Christian Monk inspired it, and then Rabbis interpolated it with Jewish tales and puerilities. It was collected in a loose and huphazard way. Besides the authorized edition imposed by the tyranny of Othmân (and subsequently depraved by Hajjàj), ${ }^{1}$ Ali, Obey ibn Káb, and Ibn Masûd, had each their separate exemplars. Maring been compiled, if not in part composed, by different hands, and thrown unsystematically together, the text is alleged to be in consequence full of contradictions, incohereneies, and senseless passages. A great deal of this section, though in less irreverential language, was no doubt rery similar to the kind of arguments held by the rationalistic Motázelites of the day, and favoured by Al Mâmûn. For we know that it was after a hot and prolonged diseussion that the Coran was proclaimed by Al Mâmun to be ereated. It is therefore altogether in accord with the probabilities of the ease, that this particular phase of the argument should hare been (as we actually find it) treated by our Author at great length and with a profusion of tradition possessing little authority, although popular in that day,-a kind of rank mushroom growth springing out of Abbasside faction. The tables were soon turned on this free-thinking generation, who in their turn suffered severe persecution; and never before or afterwards did such an opportunity oceur, as our Apologist enjoyed, under the very shador of a Caliph's Court, to argue out his ease with his enemy's weapons ready to his hand.

Al Kindy makes a strong point of the hypocrisy of the Jews and Bedouins who lived at the rise of Islam, their superficial conversion, and the sordid and worldly motires by which, when the great Apostacy followed the Prophet's death, they were brought back to Islam, "some by fear and the sword, some tempted by power and wealth, others drawn by the lusts and pleasures of this life." It was just the same,

[^4]he said, with the Jews and Magians of his own day. And to make good his point he proceeds to quote a speech of the Caliph, made in one of the assemblies which he was in the habit of holding. The passage is so remarkable, and so illustrative of the character of Al Mâmûn, that, at the risk of lengthening my paper, I give it here in full :-

And I doubt not but (the Lord bless thee, my Friend!) thou rememberest that which passed at an assembly of

## Speech of

 Al Mâmûn. the Commander of the Faithful, to whom it had been related in respect of one of his Courtiers that, though outwardly a Moslem, he was at heart a reprobate Magian: whereupon the Caliph delivered himself (as I have been informed) in the following terms:"By the Lord! I well know that one and another (and here the Caliph named a whole company of his Councillors), though professing Islam, are free from the same; they do it to be seen of me; while their convictions, I am well aware, are just the opposite of that which they profess. They belong to a class who embrace Islam, not from any love of this our religion, but thinking thereby to gain access to my Court and share in the honour, wealth, and power of the Realm; they have no inward persuasion of that which they outwardly profess. Truly their case, to my mind, resembleth the too common one of the Jews, who, when Islam was promulgated, held by the Tourât and the Law of Moses. And, indeed, I know of one and another (here the Caliph named a whole band of his Courtiers) who were Christians, and embraced Islam unwillingly. They are neither Moslems nor Christians, but impostors. And how shall I deal with these, seciug that the curse of God is upon them all? When they abandoned the Magiau religion (the vilest and most abominable of all religions), it was incumbent on them to hold firmly by the new religion which they embraced, instead of by that which they left only in appearance and hypoerisy; and so likewise, with those who abandoned the Christian faith (the most amenable of all religions to the effulgenee of Islam and the truth of its erced). But hercin, I have the example aud precedent of the Prophet (on whom be blessing ! ${ }^{\text {}}$ ). For many of his companions, and familiars, and near of kin professed to follow him and be his Helpers; whilst he (on whom be blessing!) knew well

[^5]enongh that they were all the time hypocrites, opposed at heart to what they outwardly professed. These eeased not to study evil, and to plot, to seek his fall, and to assist the Idolators against him; insomuch that a company of them lay in wait at a certain pass to affright his mule, so that it might throw him, and he be killed. But the Lord delivered and protected him from their snares, and the evil they thought to risit him with. Notwithstanding, he intreated them courteously to the end, eren until the Lord took his spirit unto himself. Thus he guarded himself by kindness and eourtesy against their maehinations. Wherefore, it well becometh me that I shonld follow his example. Then after his death they all apostatized, seeking both outwardly and in their hearts, both in seeret and in publie, to seatter Islam and destror the empire; until, at the last, the Lord helped the same, and healed the schisms; and that he did by easting into the hearts of eertain amongst them the lust of empire and love of the world; and so the government was strengthened and the divisions reconeiled, by means of kindness and forbearance. Thus the Lord fulfilled that which he lath fulfilled for us; and herein, no thanks or praise to any but to the Lord alone ! Now, therefore, I will no more make mention of that which I have seen and heard in respect of these my Courtiers; but I shall treat them with courtesy and forbearance until the Lord decide between us, and he is the best of all deciders."

Now, unless my lord, the Commander of the Faithful, had spoken thus openly in the ears of the nobles at his Council (the Lord exalt the same!), and the tidings thercof had spread, and the present ones had told the absent ones, I had not rentured to make mention of it here. Thou art witness that I have not added one thing thereto. And I only remind thee now (for no long time has elapsed) of that which passed at this assembly, in order to bring up clearly the subject of the great Apostacy, and to show that the people were not reconverted therefrom unto Islam, but through love of the world, and to build up this Empire under which they now live. In proof thereof, if the Lord will, this answer will suffice for all enlightened persons who may peruse my book.Page 66.

It may appear strange that the Caliph should have expressed himself in this outspoken way regarding many of his Courtiers in a public assembly. But, certainly, the
sentiments are in entire aecord with what we know of the eharaeter and prineiples of Al Mâmûn, and also with the soeial and religious elements prevailing at Merve, where he first assumed the Caliphate, as well as at Baghdad, where he shortly after fixed his Court. It is diffieult to believe that any one would have ventured to fabrieate such a speech; or, supposing it genuine, that it should have been quoted by other than a eontemporaneous writer.

I proceed to notiee what evidence there is in the Epistles that the disputants were what they profess to have been, that is, persons of some distinction at the Court of AL Mâmún. The Apology, it is true, from its antiquity and rhetorie, may well stand upon its own intrinsic merit; but, undoubtedly, the controversy is invested with fresh life and interest when we know that the combatants were not fietitious, but real personages.

First, as regards the Hâshimite ; it is conceivable, of course, that he is an imaginary person, set up to be aimed at as the representative of Islam; a mere eatspaw, to draw forth the Christian's argument. This was the surmise of one of the learned Ulema from Constantinople, to whom I showed the book; but his chief reason for so thinking was that the argument for Islam was weakly stated, and that a mueh better ease might have been made out. ${ }^{1}$ In opposition to this view, it may be observed that the personality and charaeter of the Moslem are sustained consistently throughout both Epistles. Every notiee and allusion is in keeping with his assumed Hâshimite and Abbasside deseent, his relationship to the Caliph, his friendship for our Apologist, and the guarantee of freedom and safety obtained by him for the diseussion. There is besides more than one ineident of persoual life. Thus we have a eurious passage on the use of the Cross, in whieh Al Kindy reminds his friend that repeatedly in eiremmstanees of danger he had used the sign, or ejaeulated an appeal to the Cross, admitting thus the virtue of the same ; and on one of these oecasions, he speeifies the place (Sabât al Medain)

[^6]where it oceurred. Elsewhere he refers to words used by his friend in another diseussion about "the Soul." In ridiculing the notion that the name of Mahomet is written on the heavenly throne, the Christian says that none even of his friend's own party held to that conceit. And, again, he apologizes for the warmth of his language by reminding his friend that it was lie who had begun the controversy.?

As regards Al Kindy himself, his personality transpires throughout the whole Apology. With a strong attachment to the Nestorian faith, he ever displays a violent aversion from Jews and Magians, on whom, upon all oceasions, he bestows the most contumelious epithets. While giving honour to the Hâshimites as chief of the Coreish, he not the less vaunts the superior and kingly dignity of the Beni Kinda, as the blue blood of the Arabs, acknowledged to have been supreme over the whole Peninsula; and he apologizes from his own stand-point as an Ishmaelite, whenever the argument leads him to prefer the lineage of Isaae to that of Ishmael. The repeated assertion of his own learning, experience, and knowledge of mankind and of the various systems of religion and philosophy, is also in keeping with the vein of conseious superiority, tinged with a slight spice of vanity, which runs throughout the Apology:

Add to this that, amidst much that is crude in our view and even illogical, the work is eharacterized throughout by a singular command of the Arabic language, and that the argument rises at times, -as in the passage on Jehâd and Martyrdom,-to a high pitch of impassioned eloquence, and it must be evident that the writer was a man of remarkable learning and attainments. The Apologist, therefore, could have been no obscure individual. There seems no ground whatever for doubting that he was in reality what he professes naturally and consistently throughout the Apology to be, a scion of the noble Kinda tribe, belonging further to a branch which had clung unwaveringly to their ancestral faith. For the suspicion of a pious fraud in the assumption of that character, there is not,

[^7]so far as I can see, any reasonable ground whatever ; nor (even if internal evidence admitted the hypothesis) would there have been any sensible advantage in adopting that position.

To sum up, then; I hold that the work may take its stand, on internal evidence, as a composition certainly of the era at which it professes to have been written. Further, there is the strongest probability, amounting almost to certainty, that it is the genuine production of a learned Christian, a man of distinction at the Court of Al Mâmûn, bearing the tribal title of $A l$ Kindy. And still further, there is a fair presumption that the Apology was written as a reply to the Appeal prefixed to the Apology, and addressed bonâ fide to his friend by the Moslem, Abdallah Hâshimy, the Caliph's cousin.

There are good grounds for this belief apart altogether from the evidence of Al Bîrûni. But that evidence, as we have seen, is conclusive of the fact that the work was current in the Fourth century, and that it was so under a title corresponding with the account of the authorship as recited in the Preface to the Apology. Al Birrûni's testimony is, to my mind, chiefly valuable as serving to remove a doubt which must oecur to the most casual reader; and that is, whether any one could have dared, at the Metropolis of Islam, to put forth a production written in so fearless and trenchant a spirit against Islam ; and whether, this having been done, the obnoxious treatise would not have been immediately suppressed. Religion and the Civil power are, in the Nahometan system, so welded together, that the lesa Majestas of the State is ever ready to treat an attack on Islam as high treason of an unpardonable stamp. But the evidence of $\Lambda l$ Bîrûni shows that, having survived, our Apology was actually in circulation, in a Mahometan country, a century and a half after the time at whieh it first appeared. This is almost a greater marvel than that it should even have been written in the first instance; for, under the tolerant. sway of the frec-thinking 11 Mâmûn, that was possible, which a few years later would have been utterly impossible.

And one may be very ecrtain that, when Orthodox views again prevailed, every cffort would be made to suppress and cxtcrminate an Apology, obnoxious not only for its attack on the religion of the State, but also for the political sentiments therein advocated as to the divinc right of Ali , the usurpation of Abu Bekr, and the manner in which the Coran was compiled. But the work lad in all likelihood alrcidy so spread during the rcigu of Al Mâmûn and his immediate Suecessors (who shared his Motázelite vicws), that its entirc suppression becamc, no doubt on that aecount, impossible. And so copies survived, although stcalthily, here and there in Mahometan countrics. But why this remarkablc book was not better known and ralued in Christian countrics, is very strange, indeed to my mind altogether unaceountable.

Admitting all that has been advaneed, it will still remain a question of rare interest who this unknown "Al Kindy, the Christian," was. In a letter from Dr. Steinschneider to Prof. Loth, a suggestion is thrown out which might possibly lead to the identification of our Author. The trace is there given of a Eustathius al Kindly, mentioned among other Cliristian and Jewish names by Casiri in his Bibliotheea Arabica, as one of the translators of Aristotle, or eopyists of Greek works. May this not hare bcen our Apologist? ${ }^{1}$

Further inqury in this, or some other similar direction, might possibly throw more certain light on the authorship. Other MISS. of the Apology, whether in the East or in our European Libraries, might also with adrantage be compared with the printed version to elucidate the purity of the text, and especially of such passages as appear to be imperfect or uncertain in the MSS. from which this edition was printed. ${ }^{2}$

[^8]The inquiry is not unworthy the attention of the most eminent of our Oriental seholars. The Apology is absolutely unique of its kind. In antiquity, daring, rhetorie, and power, we have nothing in the annals of the Mahometan controversy, at all approaehing it. And any researeh that might throw light upon the origin of the Argument, the eircumstances of our Author, the authenticity of the work, and the genuineness of the text handed down to us, must possess not only a literary interest, but in some respects a practical and important bearing on the same struggle whieh is being waged to-day, as engaged the labours of Abdallah the IIâshimite and Abd al Masîh, Al Kindy, the Christian, in the days of Al Mâmûn.

I have to express my acknowledgments to Prof. Ignatius Guidi of Rome, to Dr. Fritz Hommel of München, and to Dr. Steinschneider of Berlin, for their very kind assistance in the prosecution of this inquiry. To the first, $I$ feel specially grateful for his goodness in eopying out for me the entire controversy in whieh $A$ bu Yûsuf al Kindy appears as an opponent of the doetrine of the Trinity.

It is my purpose to publish a full analysis of the Apology, with trauslation of the more important parts, which will enable the reader of this Essay to judge nore fully of the weight of some of the foregoing arguments than he can at present do from statements as to its contents and composition, resting simply on my own authority. ${ }^{1}$

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## Art. II.-The Poct Pampa. By Lewis Rice.

In the works of the poct Pampa, or Mampa as he was called in later times, we have carlier and more definite information than has hitherto been published regarding the period from which the Kannaḍa or Karụâtaka (so-called Canarese) language has been used for purposes of literary composition. From his first work, the Alli Purinn, we learn that he was born in Śska 824. But his second work, called Vikramârjung Vijaya or the Pampal Bhârata, which established his fane, tells us that both were written in the same year-Siaka 863and adds many particulars full of interest in regard to himself, and the cireumstances under which he wrote.

Ifis own gencalogy is thus given. In the Bengi mandala was a beautiful town named Vengi; connected with which were the agrahîras of Koṭṭ̂ru, Niḍuguṇdi and Vikramapura. The last, which was the chief of these, was renowned as the residence of Mânava (or Mâdhava) Somayâji, of the Vatsa gotra. His son was Abhimâna-chandra, whose son was Komarayya, whose son was Abhirâma Deva Râya. He, believing the Jina faith to be superior to that of the Brâhmaṇs, became a Jaina; and his son, distinguished as Kavitâguṇârụava, was Pampa. ${ }^{1}$

Other poets having related the Bhârata at great length, some excelling in description and some in the narrative, all the pandits agreed that Pampa was the one who could do justice to it without sacrificing any of the story. On their petition he made the attempt; and taking his king as Arjuna, crowned him as the hero.

The following is a summary of the account of this royal

[^10]patron, omitting merely laudatory verses. In the sky of the Chaḷukya vaḿnsa, Yuddha Malla shone as its moon. And he ruled over a $1 \frac{1}{4}$ lakh country. ${ }^{1}$ His son was Ari Kesari, who with the ministers of the Bange rishaya, penetrated into the kingdom of Nirupama Deva, and inscribed his fame on all the points of the compass. He had two sons, the chief of whom was Narasimha Bhadra Deva. This Narasinga's eldest son was Dugdha Malla; whose eldest son was Baddiga. He was skilled in forty-two modes of warfare, and obtained the name of Sôlada Ganda (invincible champion). As if seizing a crocodile, he entered into the water and proudly seized Bhîma. To Baddiga was born Yuddha Malla, whose son was Narasimha. His guru was Subhadra muni. Erapa having gone over to the Lâlas asking them for an estate, this Kali Narasimha offered him a much better maṇdala, and confirmed it with a strong promise. He subdued the chiefs of the seven Mâlala (?) ; and plucked from the Ghûrjara Râja's arms the groddess of victory, whom, though desirous of keeping, he had held too loosely. The Mahipâla fled as if struck by thunderbolts, staying neither to eat, nor rest, nor pick himself up; while Narasimha pursuing, bathed his horse at the junction of the Ganges and established his fame. His queen was Chandrânane. To them was borı Ari Kesari Râja. He protected Vijayâditya, who took refuge with him, against Sakala Chakravartti named Gujjiga (or Gojjiga), who attacked him. Finding that in the four matters-bounty, valour, conquest, fame-he excelled even Baddiga and Narasimha, Guṇàrụava made that Ari Kesari his hero, and identifying him with Arjuṇa, undertook this poem.

So powerful was the effect of his poctry that by means of it, in the war of his own king of the Jôla country, he enabled him to win the very crowns of the hostile chiefs. ${ }^{2}$ And Ari Kesari, taking him as a friend, directed him to

[^11]write this itihâsa kathe, whieh ho finished in one year, and the king rewarded him with the village of Dharma-uram, situated in the Baehehe Sàsira (or Thousand), as a śásana agrahdra, whieh he re-named Sâram.

In the pith (tirula) of the Kannaḍa of Puligere, the royal city, did he write, naturally and without effort; ${ }^{1}$ thus his Bhärata and Ádi Purâna put all former poems under their feet. ${ }^{2}$ Resolved, while doing his secular duty on the one hand, and his Jaina religious duties on the other, that he would essay for the good of the world to write the Bhârata and Âdi Purâna, he eompleted the one in six months, and the other in three months. For these works, like Vyâsa, he grot the name of Purana Kavi; and they were read by all classes of people, by servants as well as by the greatest poets.

Such is the aceount full of ineident that Pampa gives of himself and of his times. It appears from this that his patron Ari Kesari, seventh in descent from Yuddha Malla, a Chalukya prinee, was king in Śaka 863 over a $1 \frac{1}{b}$ lakh eountry called Jôla. The folloring is a summary of the pedigree and the historical references:

Iuddha Malla-moon in the sky of the Chalukya ramisa.
Ari Kesari-invaded Nirupama Deva.
Narasimha.
Dugdha Malla.
Baddiga-seized Bhìma.
Yuddha Malla.
Narasimha-established Erapa in a kingdom:
| defeated and pursued Ghûrjara Râja.
Ari Kesari-defended Vijayâditya against Gojjiga : ruling in Saka 863.

[^12]The only one, as far as is known, of the Western Châlukya kings who bore the title of Yuddha Malla was Vinayâditya, who ruled from Śaka 602 to 617. ${ }^{1}$ Nirupama Deva, into whose territories Ari Kesari made an incursion, must be the Ratṭa or Râshtrakûṭa king of that name. Bhîma may be the Châlukya who is denounced in such strong terms in the Rudra Deva inscription. ${ }^{2}$ Baddiga seems to have been a popular name at about this period; it oecurs as that of the ruler of Kanchi in Saka 726, and as that of a Ratta king. Erapa is the name of a usurper of the Ganga kingdom, of whom the curious Begur-stone is a memorial. Ghûrjara Râja is, of course, a king of Gujarat. Gojjiga may be the same as the Ratṭa king called Khotiga or Khodviga. Vijayâditya may be the Châlukya of that name, the last of those in whose time the Rattas were in the aseendant, and the predecessor of Tailapa, who restored the Châlukya supremacy in Śaka 895. ${ }^{3}$

Not the least in interest among the items of information given us by Pampa is the mention of the Jôla kingdom. It is well known that the Chinese pilgrim Hwen Tsang. describes a country of that name through which he passed on his way from Dhanakakaṭa to Drâviḍa, the identification of whieh has exereised the ingenuity of all the seholars who have undertaken to illustrate the geography of his travels. There seems reason to believe that a dircct testimony to the accuracy of his statements regarding it has here for the first time come to light. The extent of the country may be relatively inferred from its designation as a $1 \frac{1}{4}$ lakh country ; and its situation from the capital being at Puligere. This Puligerc, or Muligere of later times, seems identical with the P'ulikara-nagara of inscriptions, and the modern Laksh-

[^13]meśrara in the Dhàrvâd country, situated a little nortli-west of the junction of the Varadâ river with the 'Tungabhadra.

In concluding this notice of Pampa, it may be stated that a poet named Nâgachandra, under the assumed name of Abhinava Pampa, wroto the Pampa Râmayana or Râmachandra Charita P'urạna in Kannaça, about a century later. This Bhârata and Râmâyana of the Jains in Kannaḍa thus preceded all the Brahmanieal versions of those works in any of the South-Indian languages.

Art. III.-On a Coin of Shams ud Dunyâ voa ud Dîn Mahmúd Shâh. By Charles J. Rodgers, M.R.A.S., Normal College, Christian Vernacular Education Society for India, Amritsar.



This coin bears evidence of being genuine. The metal is that misture of silver and copper which obtained under the Pathâns of the date on the coin, $718 \mathrm{~A} . \mathrm{H}$. It is also of the same weight, or nearly so. The dated coins of Ala ud Dîn Muhammad Shâh of this type average, according to Thomas, 50.7 . Those of Kutub ud Dîn Mubarak Shâh average 5 j̃ grs. The coins of Shahâb ud Dîn Umr are $54 \cdot 5$. The inscriptions, omitting names, are exactly similar to those of Ala ud Dîn's No. 135 of Thomas, Shahâb ud Dîn's Thomas No. 141, and Kutub ud Dîn's Thomas No. 147. ${ }^{\text {? }}$

The coin was found in a heap in which were several of Gyâs ud Dîn Balban, Gyâs ud Dîn Tuglaq, Muhammad Tuglaq, and one of Nàsir ud Dîn Khusrau Shâh, together with a great quantity of types of Ala ud Dîn Muhammad Shâh. Hence it had probably been in their company for many years. As there were none later than Muhammad Tuglaq, this would seem to indicato that the find was deposited cither in the reign of Muhammad Tuglaq or of his immediate successors.

But who was Shams ud Dîn Mahmûd Shâh? There was

[^14]a Shams ud Dîn in Kashmîr who, aecording to Prinsep, began to reign in 715 a.if. But the coin is not of a Kashmir type. Neither, so far as we know, did the Kashmîrîs ever use the peculiar mixed metal of which this coin is composed. Ncither did the Kashmîrî Kings ever use this peculiar inscription. The inseriptions, metal, and weight seem to point out its place of mintage as Dehli; for they are, as I have already pointed out, similar to the coins struck by the Sultans of Dchli before and after 718 A.H., the date on this coin.

According to the "Asâr us Sanâlîd" of Syad Ahmad, Kutub ud Dinn began to reign in Muharram, 716 a.H. That is, he began to reign in the first month of the year. Ferishtah, howerer, says the year was 717 A.h., and the day of the month the 8 th. The Târîkh i Mubârak Shâhî gives the date as the 20th of Muharram, 716 A.ir. As the eoins Nos. 147-8 of Thomas are dated 716 A.f., we must allow the 716 to stand as the date of his accession.

The first ycar of Kutub ud Dîn's reign was spent in the performanee of a variety of aets. He murdered a lot of pcople, set free some thousands of prisoners, raised a lot of mean people to places of trust, and made an incursion into Gujrât. Personally the King remained in Dehli cngaged in drunkenness and debauchery (زسق: ; نَّور).

In the second year of his reign-we are not told the month-but it would probably not be in the 1st, i.c. in Muharram, for in 717 that began on March 16 th, but it would most likely be towards the end of the year, the King gathered together a large army, and himself led it toward Deogir in order that he might deliver that eity from Harpâl Deo, the son-in-law of Râm Deo, who was engaged in the siege of that place. He left in Dehli, Gulâm Bacha Shâhîn as his deputy, and gave him the title of Wafâ Beg. The King was successful in his expedition. It must have taken him the whole of the cold weather, for Deogir is a long way from Dehli, and the King, besides relieving the town, made arrangements for the eonquest of the Malabâr district. All the way back he indulged to that extent in drunkenness, that Asad ud Dîn, cousin of Alâ ud Dîn Muhammad Shâh,
eonspired against him, but being betrayed by one of his confidential servants he was unsuecessful, and was executed together with twenty other persons, some of whom were in Dehli, and some of whom were journeying with the returning army. The words made use of with respect to Asad ud Dîn are 8 he laid elains to the sovereignty, and then Ferishtah adds he eonspired with some of the King's life-guards. It is quite possible that those exceuted in Dehli may have been conspirators who were engaged in a quiet way in making preparations for the advent of the new King by issuing eoins in his name, or at any rate by getting them ready. It is a common thing, as we know, for kings to have had one title before their assumption of royalty, and another afterwards. So it need not surprise us that $\Lambda$ sad ud Dîn took the title of Shams ud Dîn Mahmûd Shâh. Kutub ud Dîn took the trouble to investigate the matter, for we get
 may have sobered him for a time.

From all this it will be seen that I am inelined to assign this eoin to Asad ud Dîn, son of the grand-uncle of Kutub ud Dîn. The year would be suited, and I think the eireumstanees surrounding the affair are not adverse to this assignment.

There is, however, just a possibility that Wafâ Beg, the King's vieeroy in Dehli during his absence, was the man who eaused these coins to be struck. When the King returned to Dehli, Ferishtah says-


The words بغ سغن اربـاب غرض show that some men had poured into the King's ear a stream of calumny against the viceroy. He may have been governing well-too well for some. He may have indulged the idea of raising himself to the throne. He would not have been the first slave who had seated himself on the throne of his master. Tho historian adds " بـ! "- executed him vithout cause." There may, therefore, have been no causo whatever but his
good rule at Dehli when viceroy. But these "gentlemen with intentions" may have eoined these coins themselves, and taken them with them to show the King that Gulam Bacha was really not simply aiming at royalty, but that he actually had assumed it by striking eoins in his own name. We know that such things have been done in Iudian history.

At any rate, the existence of this coin gives us some clue to the wholesale exceutions which took place on the return of Kutub ud Dîn to Dehli. Ne was monster great enough for anything. If we can find a reason for his fury besides drunkemness, we are bound to do so. I think we have done so. The King is away from Dehli, on an expedition seven or eight hundred miles away. IIe is engaged there for some time, and makes arrangements for the eonquest of other provinees. He returns slowly to his capital. In the way there is a conspiraey against his life. Some of the conspirators live in Dehli. A coin is struck bearing the titles of the Emperor of Dehli. This coin is most probably struck in the eapital itself. The riceroy may have been eognizant of all this: he may have winked at it. He may have taken an active part in it or encouraged it. Or he nay have known of it, and sent the names of some of the conspirators to the Emperor. Some of the rest, fearing the worst on the Emperor's return, may have fudged up a ense against the riceroy, who was slain without any reason.

If the coin is one of a would-be nsurper, it is interesting. If it be one of the coins struck by a man's enemies in order to turn the King against him, it is more interesting. At any rate, it shows us that humanity in Dehli in A.H. 718, in the middle of the reign of one of the foulest monsters that ever disgraced a throne, was not quite hopeless. Some one thought himself more worthy of being king than Kutub ud Dín Mubârak Shâh. The title and name seem to infer this, for the title is Shams ud Din, and the name Mahumûd Shâh. If the drunken sodomite was the pole of religion and the blessed king, it would not take a man of very high morals to be the Sun of religion and the praised king.

## Art. IV.-A Sculptured Tope on an old Stone at Dras, Ladak. By William Simpson, F.R.G.S.

Dras is a village on the banks of a stream of the same name, about the distance of one march beyond the Bul-tul pass, on the road from Cashmere to Leh. There are two sculptured stones at this place, and as Cunningham has described them in his work on Ladak, I shall quote from him :
> "On the side of the road, between the hamlet of Styalbo and the village of Drás, there are two pillars of granitic mica-slate, which the people call Chomo, or 'The Women,' but which, I believe, hare no conncetion with Tibetan Buddhism, as the nearly oblitcrated inscriptious are in Kashmiri Tákri, and not in Tibetan characters. The eastern pillar has one principal figure, a four-armed female, and two attendant females, one on each side, and cach with one lcg bent. They all wear neeklaces, earrings, amulets, and anklets. On the pedestal are sereral small knceling figures with their hands raised and joined in attitudes of prayer. This pillar is six feet nine inches high, oue foot six inches broad, and oue foot thick. The western pillar has the same principal figure, also a four-armed female, with two attendant females on each sidc. This pillar is six fect high, two feet nine inches broad, and one foot thick. From the style of these figures, as well as from the nature of the alphabetical characters, I have no hesitation in stating my opinion that they are Brahminical statues crected by some Kashmirian Hindus. This opinion is strengthened by the fact that there is a third undoubted Hindu pillar standing close to them, which I beliere to be a Sati pillar. On one side is sculptured a horseman, which is the usual emblem, placed on the pillar of a Rajputni Sati, to denote that her husbaud was a soldier. On the baek of the pillar thero is an inseription of cight lines in Kashmirian Táliri, which I am unable to translate satisfactorily." $-\mathrm{pp} .381-82$.

Cumningham gives drawings of both stones; these with the abovo description are evidence that ho must have devoted


SCULPTURE OF TOPE ON OLD STONE AT DRAS, LADAK. SKETCHED ON THE SPOT IN 1861. BY W. SIMPSON.



CHORTEN,
OR BUDDHIST TOPE OF THE PRESENT DAY IN THIBET.
considerable time to them, and yet he has quite overlooked a very important sculpture on the back of the eastern pillar. This is a representation of a Buddhist Tope. The style of sculpture of the female figures, so far as I am able to judge, is quite in keeping with Cunninghan's conchusions; but we can scarcely suppose that the Tope was the work of Hindus. We are led from this to the supposition that the art on the one side belongs to a different date from that of the other ; and we may also suppose that the Buddhist is the older of the two. It would be important if we knew the exact date of both styles of sculpture-this I cannot pretend to determine; all that may be said is, that we do not require to assume a very ancient date for either.

The value belonging to this representation of a Tope consists in its bearing on the form of the Topes of the Peshawer Valley, and of those at Jelalabad; and at the same time on the Chortens or Topes of the present day in Thibet.

The Topes of India, from Amravati to Manikyala, so far as we as yet know, have all round bases. The well-known "Buddhist Railing" of the Bhilsa Tope will recall to the mind the ground-plan of these structures. When we cross to the right bank of the Indus, we find a marked change a square base appears; and from the Khyber Pass to Gundamuck this form seems to have been followed without any exception. Now in the drawing, here given, of the sculptured Tope at Dras, a square base is distinctly visible, showing that the form was derived from the right bank of the Indus, and not from the left. The Jelalabad Topes had a passage all round the square base a few feet from the ground, thus producing an appearance which might be described as two stages. In the sculptured example there are some indications which suggest stages, but I think they show that there must hare been some departure from this type. The great Tope at Peshawer is described as having five stages, from which it is possible that in the Peshawer Valley the number at times varied.

The Topes beyond the Khyber had another distinguishing
feature; that was, they had stairs leading up to the top of the square base, where there was a platform used in some way for the ceremonials performed at these shrines. The small Topes had one stair, the larger had two, and the very largest had four, one on each side of the structure. These stairs on the more magnificent Topes must have had a very imposing appearanee. In the sculptured Tope the stair appears prominently.

There is a small sculpture of a Tope in the Lahore Museum, it was found in the Peshawer Valley, and on it there is represented a sitting figure at the base of the circular part of it. From my own explorations at Jelalabad I should say that the Topes there had all figures in this position, and facing the stairs of approach. In no case did I find the remains of any of these figures, but in more than one Tope I found what I supposed were the remains of where it had been placed, and I assumed them to have been a part of the design before I had noticed the sculptured Tope in the Lahore Museum. This partieular arrangement is very distinct in the Dras sculpture. ${ }^{1}$

Thus fur, I think, the remains of Topes beyond the Indus explain the peculiar points of the one found at Dras.

In a paper read to the Royal Institute of British Architects I attempted a restoration of one of the Jelalabad Topes. ${ }^{2}$ From the ruincd condition of the monuments, in no case did I find the summit of one of their domes. This left me destitute of any guidance as to the number or size of the surmounting umbrellas. The only hint available was what might have been derived from the sinall model of a Tope found at Manikyala, ${ }^{3}$ but as it was only a relic casket, and belonged to the Indian side of the Indus, it did not seem of sufficient authority, so I made no attempt to realize this part of the design, but merely indicated three umbrellas, that being a common number in the more southern

[^15]Topes. I had completely forgotten this sketch of the Dras stone, which is in one of my old sketch-books; it was only the other day that I chanced to look it up, and its value as bearing on the Jelalabad Topes became at onee apparent; and, on showing it to Mr. Fergusson, he recommended that it should be published, which I have much pleasure in now doing.

That this seulptured Tope gives an approximate idea of the umbrellas of the Trans-Indus Topes I will now proceed to show. By comparing it with the small model Tope found at Manikyala, a strong resemblance in the size and form of the umbrellas is distinctly visible. I have a photngraph of a small sculptured Tope found in the Peshawer Yalley, and now in the Lahore Muscum ; it has only three or perhaps four umbrellas, they form a solid pyramidal mass over the Tope, and the diameter of the lower one is equal, if it does not exceed, the diameter of the Tope bencath. This extensive width of the lower umbrella is exactly the case in the Dras Tope; where it will also be seen the larger number of umbrellas raises the pyramidal form into that of a spire, and it will at the same time be noticed that there is no pretence of a pole to support them, they form a solid structure, with some indication of ornament between each umbrella. We have not only the extended diameter of the umbrellas in this Dras Tope, and the large number of them-thirteen-but we have their great height, which forms quite a new feature in our knowledge of such structures in India. That this distinctive eharacteristic belonged to the Trans-Indus Topes I think can be made out pretty clearly. Hiouen Thsang gives a rather more detailed account of the Great Tope at Peshawer than is usual with him. He states that: "Sur le sommet du Grand Stoûpa, il éleva encore une coupole en cuivre doré qui avait vingt-cinq étages." ${ }^{1}$ This was by far the grandest Tope in India, and that may explain why there were such a number of Chattas; we may reasonably assume that the smaller Topes would have fewer, and that the number was variable. That they were

[^16]large in proportion to the Tope, and that they were arranged in a pyramidal form, towering high above the strueture beneath, I have not the slightest doubt now in my own mind, after seeing the Dras sculpture. Vestiges of this arrangement can be pointed out in various direetions. On the Tibetan Dagobas there is a spire on the summit, with a series of dises or rings; it will be seen that the Dras seulpture gives us the conneeting link to this form. In Fergusson's Indian and Eastern Aichitecture, ${ }^{1}$ there is an illustration of a monumental gateway to a Buddhist monastery in Pekin; over the gateway is a Tope of the Tibetan form, in whieh it will be seen these rings or dises are combined into a pyramidal mass. In the same work will be found another illustration of the same arrangement, that is, the Temple of Swayambunath, in Nepal. ${ }^{2}$ This last is, in fact, a Tope or Dagoba, and it is surmounted by a spire formed of thirteen dises, the same number as the Dras seulpture. That these dises were derived from umbrellas has all along been generally assumed, but up to the present we had no monumental evidence to show its derivation. This, I think, has now been found.

In my restoration of the Ahin Posh Tope at Jelalabad, I had authority for all its parts, except the surmounting umbrellas. In order to eomplete that restoration there should be added, as it was a large Tope, let us say, a spire of thirteen umbrellas, and I believe you will have a very fair rendering of what the structure was like. There is one bit of detail in the Dras Tope, whieh is too roughly represented for us to realize its exact eharacter. It is most probably an external support for the umbrellas; it starts from the dome of the Tope, and is continued like a frame on the outside of the umbrellas up to the pinnaele. Sueh a mass of umbrellas, whether made of copper or other material, would be heavy, as well as liable to be blown down by storms-I ean speak of the strength of the wind in the Jelalabad Valley from experience -and means would be necessary to prevent this. As the um-

[^17]brellas were gilt and ornamented, wo may assume that this part of the construction would be the same, but the sculpture gives us no indication of this. In the Tope on the gateway at Pekin, already mentioned, there is an ornamental form which hangs down on the side of the dises; this may perhaps be a vestige of it. If this is not the correct explanation, the only other suggestion which occurs is, that it was a garland of flowers-of which we have a well-defined example among the Bharhut Sculptures.

I come now to deal with this sculpture in relation to the Tibetan Topes. We know the form of the tee of the Peshawer Valley Topes from a couple of small ones in the Lahore-Museum ; they resemble the one on the Casket Tope found at Manikyala. They all have a projecting cornice on the upper part. On comparing them with the tee of the Dras sculpture, I should say that the form there shown had resulted from a continued copying of the first one in a rude manner, till the mouldings of the cornice had been lost in the process. The use of plaster, in thick coatings,-which was the practice beyond the Indus, and no doubt went from that region into Ladak, for the Chortens there at the present day are still thickly coated,-will easily account for the change in form which has occurred. If this should turn out to be a fact, it gives us a very curious transformation. I have inade a rough outline of a Tibetan Tope, of which there are numbers in almost every village at the present day, in some places they are more numerous than the houses. Now in these Chortens, what we would call the body of the Tope is exactly the form of the tee of this sculptured Tope at Dras. The spire, but in a reduced form, has been retained, but the dome below has in course of time disappeared from the design, and become merely a part of the square base, and is represented now by a few plintbs, like steps.

Should this suggestion of mutation be accepted, we have an important question to determine as to how this was brought about. Very great changes of this sort may be accounted for by a long period of copying and re-copying by clumsy workmen; but, although possible, it is difficult to
believe that the principal part of the structure could have been entirely lost. This process of undevelopment might have taken place, but it does not prevent other suggestions from being considered. We may take it for granted that the Thibetans had mounds, or cairns, and even dagobas, before the style of construction beyond the Indus had penetrated to the Himalayas. Two centuries and a half before Christ Buddhist missionaries went to Kashmere, and that is long before the Indo-Classical style had been used for the Buddhist structures in the Peshawer Valley. Mr. Fergusson has thrown out the idea that the tee of the Buddhist Dagoba was originally a tomb, or at least a simulated relic casket. This theory I feel much inclined to adopt. The so-called tomb of Cyrus at Pasargadæ presents itself as an illustration in its favour. George Smith described to me the Zigarets of the Euphrates Valley as having been placed on the tops of mounds, and they are only small shrines reminding one of the usually given restoration of the Tower of Babel. Wc have thus a well-authenticated type from which it is quite possible that the tee may have originated. Mr. Fergusson mentions another illustration-the tomb of Akbar at Secundra, with the simulated coffin on its summit. It is quite possible that the Tibctans may have had some customary form of their ancestral mounds or cairns, with rites attached, which caused them to look on what we call the tee as the most important part of the Dagoba, and hence the reason that the dome was neglceted.

In the paper read to the Royal Institute of British Architects, the probability was pointed out that the Tibetan Chorten was derived from the Indus Valley. I nced scarcely point out that this sculpture at Dras goes a long way to establish the idea. The square base on which they rest scemed to me a strong reason for this conclusion. As the pushim of Tibet still finds its way into India through Kashncre, it is pretty strong evidence that that is the natural route into Northern Thibet at least; and the style of art and architecture followed in the Peshawer Valley, and which was celcbrated in the early centuries of the Christian era, no doubt forced
its way through this passuge. The Tibetan Chorten is wide in its resemblance to the Bhilsa Tope; compare the Chortens, however, with the Topes of Jelalabad and those near I'eshawer, and the resemblanee is not so distant. The absence of ${ }^{\prime}$ the domo and the stairs shows a considerable modification, which time has produced. For the one change I have thrown out some hints, which further research may confirm or demolish; for the other nothing ean be said at present in the way of elucidation.

There is still another probability to be derived from this sculptured stone ; and that is with reference to the Pagodas of China. The origin of these structures has not up to the present been quite satisfactorily accounted for. About eight years ago, when in China, I tried to get information on the subject. All I could learn was, that they were imitations of buildings in India. Mr. Edkins, as well as others, assured me that the old Chinese books distinetly stated that such was the case. To one acquainted with the architecture of India, the diffieulty was to diseover what particular form of structure had been copied. The only explanation which offered itself was, that the Dagoba might have been the form that was followed, but that the umbrellias had got multiplied, and increased in size, till they became roofs, and each with it room under it. Place a drawing of a Pagoda from Southern China beside the Bhilsa Tope, and I think no one would suspect any connexion between the two ; but, however unlike in this ease, we had instances where the upper portion of the Dagoba is more extended, and its exaggeration into the Pagoda was thus a theory which might be accepted. In the absence of almost any other theory being likely, this became the most probable. Still it wanted something like monumental evidence to give it a satisfactory confirmation, and that has been found in this sculptured Tope under consideration. A glance at its high tower of umbrellas will show that its transformation into a Pagoda was easy. The pietures of Chinese Pagodas which we generally see are those of Southern China. Now in the North, particularly about Peking, the style is different. I can name two examples-the Tien-

Ning-Sï, close to the western wall of Peking, and the $\mathrm{Pa}-\mathrm{Li}-$ Chwang Pagoda, on the north of Peking. The design of these, although differing in the ornamental dctails, is essentially the same. Instead of a room under each roof, the roofs are represented as constructed on each other, and there are thirteen of them in each of these Pagodas, exactly the same number as in the umbrellas in the Dras sculpture. Under the lower roof only are the walls of an inclosed space. A Pagoda of this kind will be found in Fergusson's Indian and Eastern Architecture. ${ }^{1}$ It is at Tung-Chow, about fifteen miles from Peking; it also has thirteen roofs, showing that this was a very favourite number. The octagonal form of the Chinese Pagoda resulted from a very mystical figure of eight sides, called the "Pah-Kwah," the importance of which in Chinese ideas will be familiar to those who have read the Yih-King. Having accounted for this peculiarity of these Peking Pagodas, it will be seen, if we remove the distinctive construction as well as the ornament of the Chinese style from them, that what is left would bc almost identical with this Tope sculptured on the pillar at Dras. I feel satisfied that we may take it as now established that the Chinese Pagoda was copied from the Topes of the Indus Valley and Afghanistan.

Probably the date when this style of building began in China may be found in the old books of that country. It may be assumed that it would be about the time when the Pilgrims were sent to India for books and statues; we might be pretty certain that they would carry back the details of the Buddhist religious buildings, and more particularly that of the Dagobas. We have direct information from Hiouen Thsang on this point. He died in 664, and just previous to his death a large stupa was crected for the preservation of the books and statues he had brought with him. It is stated that: "Dans sa construction, on avait imité fidèlement la forme adoptée dans l'Inde. Elhe avait cinq escaliers et etait surmontée d'unc coupole; sa hauteur totale était de cent
quatre-vingts pieds." ${ }^{1}$ Ifere we have the stairs copied, which were a marked feature of the Traus-Indus Topes, of which no trace is left in the Pagodas now. There must be an error either in the translation, or it may have crept into the Chinese original, as to the number of them; it is difficult to understand how five stairs could be arranged on a foursided structure, and Hiouen Thsang must have been too familiar with this, having seen so many Topes in India, to have made the blunder. The Peshawer Tope had five stages, and its celebrity may have made it the model, and it is possible the mistake may be on this point.

That it was by way of Tibet that the type of the Pagoda went to China, we have an additional evidence in the fact that the form of the present Tibetan Chorten has also penetrated along the same route. We find one on the gate of the Buddhist monastery already referred to. In Peking there is all exact facsimile of a Chorten on some rising ground near the marble bridge on the west of the palace; it is called the "White Ming Pagoda," and I was told that it contained a seab from Buddha's body. I saw another at Chin-Kiang, on the Yantze Kiang. It stands over a narrow street, the passage underneath is formed by large stone lintels, supported by perpendicular blocks, with bracket capitals, which are unlike Chinese architecture, but would not seem strange in India. I could get no information on the spot as to how this very peculiar mixture of architecture came to Chin-Kiang, for the Hindu arehitecture of the passage, combined with the Chorten, mould be as curious an anomaly if found in Tibet as on the banks of the Yantze Kiang.

Since this paper was written I have found a passage in Mr. Edkins' Chinese Buddhism which is worth adding, as it not only bears upon the dates of the Chinese Pagodas, but also on the names given to them in China.
"The number of pagolas in China is very great. There are nine rithin thirty miles of Shanghai . . . . . At Lo-yang, in the

[^18]Tsin dynasty (A.D. 350), there were forty-two, from three to nine stories high, riehly painted, and formed after Indian models. The word $t^{\prime} a$ (formerly $t^{\prime} a p$ ), now in universal use, has displaced the older names feu-t'a (budu) and fo-t'u (buddu). The original purpose of the edifice was to deposit relies of Buddha. These relics might be a hair, tooth, metamorphosed pieee of bone, artiele of dress, or rice vessel. When bodies of deceased Boddhisattwas and other revered persons were burnt, the remains were placed in structures which reecived the same name, $t^{\prime} u p a$ or $s t^{\prime} u p a$, and it is these that have been deseribed by travellers, in Afghanistan and other regions where Buddhism formerly prevailed, as topes.
"' When there is no 'relic'" [she-li; in Sanskrit sharira], says the Cyelopadia Fa-yuen-chu-lin, 'the building is ealled Chi-ti' [in Sanskrit Chaitya], and it may be intended to commemorate the birthplaee of Buddha, the spot where he beeame enlightened, where he taught, or where he entered into the Nirvâna. Footsteps of Buddha, an image of a Bodhisattwa or of a Pratyeka Buddha, are also honoured with the ercetion of a Chi-ti."-Chinese Buddhism. By the Rev. Joseph Edkins, D.D., pp. 134-5.

From this we see that the nanes came to China with the models from India.

The Rev. S. Beal, in his Introduction to Fah-Hian, p. xxiv, also mentions the forty-two pagodas at Lo-yang, as having been "formed after Indian models." He also gives some data which explain how the models most probably came to that place. A Shaman called Dharmarakeha came from the western eountries bringing a large number of Buddhist and Brahminieal works, which he presented to the Imperial Court. This man took up his residence at Io-yang, where he was employed with other Shamans from 265 A.D. to 308 A.D. translating Buddhist books. Lo-yang is now known as Honan, and Edkins mentions a native of India, ealled Kashiapmadanga, who eame to China shortly after 61 A.s. and died at Lo-yang; but there is no notice of Pagodas at this early date, henee it may be coneluded that the end of the fourth or beginning of the fifth ecntury is the period when Pagrodas after the Indian models were first introduced.

Art. V.-Note on Pl. xxviii. fig. 1, of Mr. Fergusson's "Tree and Serpent Worship," 2md Edition. By S. Beal, Professor of Chinese, London University.

I beg leare to eall attention to a very eurious result, drawn from a comparison of the two versions, viz. that the Vaggi or Vaggians of Vesâlî are the same as the Yuc-chi of the Chinese.

If my version be referred to, it will be seen that I was at a loss how to restore the Chinese symbols used in the narrative, viz. Yue-chi; I put the word Gete in form of a query, in the first instanee, but afterwards used the expression as I found it, viz. Yue-chi.

But from Mr. Davids' translation it is made plain that the Chinese symbols are here equivalent to Vaggi or Vaggians. Secing this, I was led to look further, and to my surprise I found that M. Léon Feer, in his edition of the "Sûtra of 42 Articles," p. 47, had already identified the Yue-ehi of the Chinese with the Vriggis of India. He does so, indeed, by way of query, but, undoubtedly, his restoration is a right one. In my version of the Sûtra I had adopted the usual equivalent "Getæ" for Ta-yue-chi, and, although I do not think that the $T u$-yue-chi must necessarily be the same as the Yue-chi, yet eertainly the last eombination is properly restorable to Vriggi or Vaggi.

This led me to seek further, and I found from various quarters that the Vaggi, or the Samvaggi, or eombined Taggians, must have been Seythians.

General Cunningham, in his "Aneient Geography of India," p. 447, observes that "in the time of Buddha the Tregis or Waggis were divided into several clans, as the Lichhavis, the Tardehis, and the Tirabhuktis. The exact
number of their clans would appear to have been eight, as criminals were arranged before the eight clans, or a jury composed of one member from each of the separate divisions of the tribe." They are called by the people of the North the Samvaggis or "united Vaggis."

But, regarding the Vaggi and the Lichhavi as the same people, we are told by Mr. Hodgson that the Litsavi, or in Tibetan Litsabyis, are the so-called Scyths ("Collected Essays," p. 17, Trübner's edition).

And M. Foucaux, "Lalita Vistara," p. 137, identifies the Litsabyis with the Vaggians of Vesâlì.

Now one of the chief incidents in the history of the Vaggians of Vesâlî, as it is narrated in the Parinibbâna Sutta, and in the Life of Buddha by Asvaghosha in Chinese, is the earnestness with which they contended for a portion of the relics of Buddha's body after its cremation, over which they desired to erect a Stûpa.

And we are also told how, when they had obtained their share of the relics, they raised a Tchaitya, and instituted a grand fête in honour of the occasion.

It occurred to me that the scene depicted, Pl. xxxviii. fig. 1, "Trec and Serpent Worship," referred to the feast of this dedication. It was necessary, however, to connect this scenc with Vesâlî. I was agreeably surprised to find that the scenc immediately underneath the Chaitya feast was one certainly connected with Vesâlî. It is the scenc at the Monkey Tank in that place, where the two monkeys offered a pot of honey to Buddha. It is related in Julien ii. 387, " $A$ littlc distance," he says, "to the west of the Monkey Tank is a Stûpa. IIcre the monkeys, taking Buddha's alms dish, climbed a trec and filled it with honcy." The scene on the pillar must refer to this.
lout, again, taking the scenc below this, we see, first of all, that it relates to the place where Buddha stopped (denoted by the flat stone), followed by men and by Rimaras. The figures in the scene beforo us point to this.

But, again, the connected scenc of the Deva standing in a position of communication (ckamantam) with Buddha, in all
probability represents Mâra advancing towards Buddha, and addressing to him this prayer, "Now is the time to cnter on the bliss of Nirvina." The story is well told, both in tho Parinibbāna and by Asvaghosha. We rccognize Māra in this scene by tho presence of his three or four daughters, who are always associated with him, and especially in tho temptation scene, of which this is but the complement. Now these identifications connect the entire group here depicted with Vcsâlî.

The dedication of tho Tope, then, we argue, is the festival held by tho Taggi at Vesâlî. If so, we lave in this a satisfactory explanation of the dress and general appearance of the actors in the scene; they were Scyths. And their appearance fully bears this out. Mr. Fcrgusson was so impressed with it, that he describes this scene as the most interesting of all the Sanchi sculptures.

The fact of thesc Samvaggi, or combined Scythians, being scttled at this early time in the Ganges valley, is an important ethnographical item in our knowledge. We see why the shape of this tope differs from the others, and approaches that of the Kâbul type, and we can also understand how the influence of these Northern tribcs, after their conversion to Buddhism, would cause the spread of the doctrinc they professed among their fellow-countrymen in the Kâbul valley, and thus account for the strong hold Buddhism took on the Northern tribes at a very early date.

I think it also goes to confirm the idea that the Sakyas, to whom Buddha himself belonged, were a Turanian tribe, and in sympathy with these Taggi, whom Buddha resembles in so many personal distinctions.

Art. VI.-On the Present State of Mongolian Researehes. By Prof. B. Jülg. In a Letter to Robert N. Cust, Esq., Hon. Sec. R.A.S.

My dear Sir,-In reply to your request that I would send a brief account of the present state of Mongolian Researches, I have great pleasure in forwarding to you, for publication in the Journal of the Royal Asiatic Society of London, the following notes-together with a list of the literary works a vailable for the study of the Mongolian dialects.

Comparative Grammar, under the generic name of the Ural-Altaic or Finno-Tataric families, comprehends a series of languages to which, by the researehes of Castrén, the language of the Samoyeds has been added, there being, therefore, now a fivefold division of them:-Tungoos (Manchu), Mongols, Turko-Tatars, Finns, Samoyeds.

These languages again admit of separate stratification. None of the groups stand in such close relation as those of the Indo-European family. Professor Wilhelm Schott first ealled attention to this relation in his Versuch über die tatarisehen Spraehen, Berlin, 1836, and Ueber das attai"sehe oder finnisch-tatarisehe Sprachengesehlecht, Berlin, 1849 ; and Alexander Castrén in his lectures, entitled, Ethnologische vorlesungen über die Altaisehen völker, nebst Samojedischen märehen und Tatarisehen heldensagen (edited by Anton Schiefner), St. Petersburg, 1857, gave a very interesting survey of the whole family.
$\Lambda$ fter the mighty Temudselin united the ever-discordant Mongolian tribes, no people on earth have ever so gravely disturbed the mations around them. They were insuperable, and a terror to the whole world, while acting up to the spirit of their proud motto: Erein mör nigen lui, " A man's path is only one," i.e. the path, through sufferings, boldness and valour, to eternal glory. Thus, W. Sehott, in his Aelleste
nachriehten ron Mongolen und Tataren, historisch-kritische ablandlumy, Berlin, 1846, page 1.

They have founded the greatest world-wide empire that ever existed, they have conquered the whole of Asia, aud have made themselves masters of a large part of Europe ; their dominion extended from the Japanese sea, deep into the heart of Ceutral Europe; their sway almost reached the Atlantic, as it did from the icy fields of Siberia to the Indian Ocean and the Mediterranean.

As authorities for the above statements, I may quote the following listorical, geographical and etlmological works:-

The account of travels by Plano Carpini (1245), Ruysbroek (Rubruquis, 125l), and especially by Mareo Polo (1271-1295). The account of his travels has been translated into most of the European languages. The best extant are those in French, by Pauthier, Le live de Marco Polo, 2 vols, Paris, 1856; in German, by A. Bürck, with appendices and corrections by K. F. Neumann, 2nd edition, Leipzig, 1855; in Italian, by Bartoli (Florence, 1864) ; and in English, by W. Marsden, The trorels of Marco Polo, a Tenctian, in the thirteenth centmry . . . translated from the Itolian with motes. London, 1818, 4to. This book was several times reprinted. The latest edition is that of Colonel Henry Yule, C.B., The book of Ser Marco Polo concerning the liingdom and marrels of the East, nevly translated and clitecl, 2nd edition, London, 187 õ.

Of much importance, also, the description of Alul-Ghasi Bahadlur, Khan of Kharezm, a Muhammedan historian who wrote in the Jagatai or East-Turkish dialect. His work was edited by Frähn, with the title, Abulghasi Bahondür Chani Historia Mongolormm et Tatarorum mune primum Totarice edita, folio, Kasan, 1825, and subsequently was edited and translated into French by Baron Desmaisons, Aboul-Ghâzi Behảdlour Khan, Histoire des Mongols et des Tatares publ., traduite et annotée, 2 vols., St. Pétersbourg, 1871-1874. On the subject of the Mongolian dynasty in India attention may be drawn to Baber-nameh Djagataice, ed. N. Ilminski, Kasan, 1857, and Mémoires de Baber, fondateur de la dynastie Mongole dans
l'Hindoustan, trad. pour la première fois sur la texte djagatai, par A. Pavet de Courteille, 2 vols., Paris, 1871. Note, also, W. Erskine, History of India under Baber and Humayun, 2 vols., Lond. 1854. Rashid-eddin treated on the history of the Mongols in Persia. His work was edited and translated by M. Quatremère, Histoire des Mongols de la Per'se, fol. (pp. clxxxv. and 450), Paris, 1836, and with a Russian translation by E. Beresin, 3 vols., St. Petersburg, 1858-1865. Another work in Russian must also be noticed, viz. that by W. Grigorjew, History of the Mongols from the oldest times to Tamerlan, translated from the Persian of Chondemi. (8vo. pp. xii. and 158 ), Petersburg, 1834.

Copious materials are also contained in De Guignes, Histoire générale des Huns, des Tures, lles Mongols et des autres Tartares oeeidentaux, Paris, 1756-1758, with Supplément à l'histoire des Huns, par Jos. Senkowski, St. Petersburg, 1834. It was translated into German by J. Carl Dähnert, Allgemeine gesehiehte der Humen, 5 vols. 4to. Greifswald, 1768-1771. Further in K. D. Hüllmann, Gesehichte der Mongolen bis aum jahre 1206, 8ro. (pp. xvi. and 144), Berlin, 1796. C. D'Ohsson, Histoire des Mongols, depuis Tehinguiz-Khan jusqu'à Timour Bey ou Tamerlan, 4 vols., La Haye and Amsterdam, 1834-1835. Hammer-Purgstall, Gesehiehte der goldenen Horde in Kiptsehak, das ist: der Mongolen in Russland, Pesth, 1840, and, also, by the same, Gesehiehte der. Ilehane das ist der. Mongolen in Persien, 2 vols., Darinstadt, 1842-1843. El. Beresin, The incasion of Russia by the IKongols, 2 vols., St. Petersburg, 1852-1854 (in Russian). Franz v. Erdmann, Temudschin, der unersehütterliche, nelst einer geographisch-ethnographisehen einleitung und den erforlerliehen besomlern anmerkungen und beilagen, Leipzig, 1862. Léon Feer, La puissance et la eivilisation Mongoles au treizième sièele (8vo. pp. 40), Paris, 1867. O. Wolff, Gesehiehte der Mongolen oder Tataren, besonders ihres vordringens naeh Europa, sowie ihrer Eroberungen und einfälle in llesem welttheile, kitiseh bearbeitet (8vo. pp. iv. and 426), Breslau, 1872. Mr. Henry H. Howorth, in his Mistory of the Mongols from the 9 th to the 19th century, Part I. The Ilongols proper and the

Finlmuks (8vo. pp. xxviii. and 743), London, 1876 ; Part 11. The so-called Tartars of Irussia and Central Asia, Divisions 1 and 2,2 vols. Svo. pp. xxxiv. and 1087,1880 , has given us a voluminous work of rare industry, putting together as it does the immense materials at hand for the history of the Mongols and Tatars.

Before attempting to give an account of the Mongolian tribes and their languages, it will, I think, not be out of place to enumerate some of the general works, which will enable the reader to aequire some fuller knowledge of this people. This list eomprises necessarily many of the more modern aceounts of travellers. These are: P. S. Pallas, Sammlungen historischer nachrichten tiber die mongolischen rölkerschaften, 1st vol. 4to. (pp. xiv. and 232), St. Petersburg, 17r6, 2nd vol. 4to. (pp. x. and 438), 1801, and Benjamin Bergmann's Nomadische Streifereion unter den Kalmüken in den juhren 1802 und 1803, 4 parts, Riga, 1804-1805 (I. 351 ; II. 352 ; III. 302 ; IV. 356), each standard works. The same must be said of Isaae Jacob Schmidt, Forsehungen im gebiete der älteren religiösen, politisehen und literärisehen bildungsgesehichte der rölker Mittel-Asiens, vorziglich der Mongolen und Tibeter (8ro. pp. xir. and 287), St. Petersburg and Leipzig, 1824. To these may be added the works of the Archimandrite Hyakinth Bitschurinski, compiled mostly from Chinese sourees: Zapiski o Mongolii (Description of Mongolia), 2 rols. 8ro. St. Petersburg, 1828 ; rol. i. pp. xii. and 230, rol. ii. pp. ri. and 339, translated into German by K. F. von der Borg, with the title of Denkü̈rdigkeiten ひ̈ber die Mongolei ion dem Mönch Hyakinth, aus dem russischen übersetzt, 8vo. (pp. xiv. and 426), Berlin, 1832. A History of the four first Khans of the house Tschinggis, translated from the Chinese into Russian, 8vo., Petersburg, 1829. A Description of Sungaria and of the eastern part of Turkestan, alike translated from the Chinese into Russian, St. Petersburg, 1829, and a Historical Survey of the Oirat or Kalmuks from the fifteenth century to the present time, Petersburg, 1834. We must, also, not omit F. von Erdmann's Vollständige übersicht der ältesten Türkischen, Tatarischen und

Mogholischen röllierstämme nach Rasehid-ndd-din's Vorgange, Kasan, 1841.

Among modern travellers reference may be made to Timkowski, Journey to China through Mongolia in the years 1820 and 1821, St. Petersburg, 1824 (Russian), with a translation into German by J. A. E. Schmidt, 3 vols., Leipzig, 1825-1826, and into French by Eyriès-Klaproth, 2 vols., Paris, 1837; to these may be added, Huc, Souvenirs d'un voyage dans la Tartarie, le Thilet et la Chine pendant les années 1844-1846, 2 vols., Paris, 1853, not omitting the researches of N. Przewalski, Mongolia i strana Tangutore, Petersburg, 1875, of which an English translation has been published, with a preface by Colonel II. Yule, C.B., and a German one by Albin Kohn, with the title, Reisen in der Mongolei, im gebiete der Tangnten und den wüsten Nordtibets in den jahren 1870-1873, aus dem russischen übersetzt und mit ammerkungen rersehen, Jena, 1877; a sceond edition of this book was issued in 1881. Besides these, may be noticed, A. Pozdnjejew, Urginskie chutuchty. Istoritseheskij otseherk ich prosehlazo $i$ souremennazo byta (The Clergy of Urga. A IIistorical Survey of their Past and Present Life), 8vo., Petersburg, 1879. Goroda sjewernoi Mongolii (The Towns of Northern Mongolia), 8ro. Petersburg, 1880, and Obraztsy narodnoi literatnry mongolskich plemen. Wypusk perwyi (Samples of the Popular Literature of the Mongolian Tribes, fasciculus i.), 8 vo. pp. vi. and 316 , Petersburg, 1880.

The fatherland proper of the Mongols is the so-ealled Mongolia. It stretches from Siberia in the north towards the great wall of China in the south, from Dauria and Manchuria in the east to the Altai, and the sourees of the Irtysh, Thian-shan (i.e. heaven mountains) and East Turkestan in the west. In the centre of this country is the desert Gobi, Chinese Shr-mo, i.e. sand-sea. The Mongolian population, however, extends in the south over the great wall to the basin of the Kökö nōr (blue lake) and thence extends due west over Tanggad and the northern border of Tibet. Crossing the political frontier, we find Mongols in the Russian province Turkestan, in the territories of Semirje-
tschensk (land of the seven streams), Alatan, and Semipalatinsk in the west, in the south of the province of Tomsk, with a more populated region due north in Siberia, round the Baikal lake. The comntry north of the Gobi from the Altai, Tanguru, and the Saian mountains in the west, to Manchuria in the east, is ealled Khalkha, with the chief districts, Urga (Kürē), Uliassutai, Khobdo (Kobdo). In a north-westerly direetion from Gobi, between Thian-shan and the Altai, is Sungaria. The sum total of the Mongol population under Chinese goverument is caleulated at between two and three millions.

Generally the whole Mongol tribe may be divided into three branehes: 1. East Monigols; 2. West Mongols (Kalmulis, Oclöd), and, 3. Buriats.

These again may be subdivided into a number of hordes. Cf. I. J. Schmidt, die rolksstämme der Mongolen, als beitray zur geselichte dieses rolkes und seines fürstenhauses from the Mémoires de l'Aeadémic Impériale des Scionces de St. Pétersbourg, $6^{\text {e }}$ série, tome ii. 183t, pp. 409-477. W. Sehott, Berölkerung, verfassung und verualtung der heutigen Irongolei, nach Jakinf Bitschurinstij: statistitscheskoje opisanie kitaiskoi imperii (Statistical Description of the Chinese Empire), in Erman's Arehio für wissenschaftliche kunde ron IRussland, 1845, vol. iv. pp. 534-547.

1) The Eust Mongols. Divided into the Khalkhas in the borders just mentioned, into Shara Mongols south of the Gobi along the great wall north-eastward to Manchuria, and lastly into Shiraigol or Sharaigol in Tangut and in northern Tibet.
2) The West Mongols (Kalmuks, Oelöd, Oirad or Dörbön Oirad=the four Oirad, Mongol Oirad). On the signification and employment of these different names, as well as regards the subdivision of the tribes, there is much uncertainty. The name Kalmuk, so generally employed among us, is, in fact, only used by the Wolga-Kalmuks (Khalimak), but even with them the name is not common. It is of foreign origin, and most likely a Tataric word, which has yet to be explained. Oirad means the 'near ones,' the 'related.' The usual
explanation given is that the single tribes consider themselves as being related to each other ; hence, Mongol Oirad, the Mongol related tribe. This is also the favourite name among Kalmuks. Dörlön Oirad=the four related tribes comprise: 1) Sungars, 2) Torgod, 3) Khoshod, 4) Dörböd.

The signification of the name Oelöd, in the East Mongolian Oegeled, now the most widely spread among the tribes living in China, is likewise very doubtful. Some assert that 'Oelöd' is nothing but the Chinese transcription of Oirad, as the ordinary Chinese language does not possess the sound $r$. We have, however, to bear in mind that we have a Mongolian root ögelekü, with the sense 'to be inimical,' 'to bear hatred,' 'ill-will,' etc. The main population of the Kalmuks live or rather drag their existence after the usual fashion of Nomad tribes in Sungary, in the eastern part of the Thian-shan, on the south border of the Gobi, on the Kölzö-nōr, and in the province of Kan-su. All these are under the Chinese government. In consequence, however, of the extension of the Russian Empire in Thian-shan and Alta-tau, many hordes have come under Russian sway. According to an approximate account we may reckon in the territory Semirjetschensk (Kuldja), and Semipalatinsk, 34,000 Kalmuks, while in the southern part of the Government Tomsk, on the Altai, the Kalmuk population amounted formerly to 19,000. Bcsides these we find a section of Kalmuk population far in the west, on the banks of the Wolga (near Astrachan). From their original scats in Sungary they turned in their migrations to the north, crossed the steppe of the Kirgise, and thus gradually reached the Emba and the Or. Between these two rivers and the Ural the Torgod scttled in 1616 ; thence they crossed the Wolga in 1650, and took possession of the now so-called steppe of the Kalmules; being followed in 1673 by the Dörböd, and in 1675 by the Khoshorl. In 1771, a considerable number returned to the Chinese Empirc. I refer to the interesting description given by Bergmann, Nomadische streifercien, vol. i. pp. 139-2.16. At the present time there is a not unimportant population in the so-called steppe of the Kalmuks, which cx-
tends between the Kaspian and the Wolga in the east and the Don in the west, and from the town of Sarepta in the north to the Kuma and the Manytseh in the south. Aceording to modern statistical accounts, this population amounts to 75,630 . To these we have to add 24,603 more on the borders of the Kosacks of the Don; and, lastly, 7,298 in the bordering provinces of Orenburg and Saratow. The sum total of the so-ealled Wolga Kalmuks is therefore $107,531$. Besides the standard work of Bergmann, reference may advantageously be made to Kwick and Sclill, Reise ron Sarepta in versehiedene Kulmücken-Horden des Astrachanischen Gourernements im Jahre 1823, Leipzig, 1827.
3) Buriats. In the southern part of the Russian province of Irkutsk, in a wide cirele round the Baikal Lake, the heirdom proper of the Buriats, which they also call the 'IHoly Sea.' The country east of the lake is commonly ealled Transbaikalia. Their country practically extends from the Chinese frontier on the south, within almost parallel lines to the north, to the town Kirensk on the Lena, and from the Onon in the east to the Oka, a tributary of the Angara, in the west, and still further west towards NishneUdinsk. They are most numerous beyond the Baikal Lake, in the valleys along the Uda, the Onon and the Selenga, and in Nertshinsk. These Trans-Baikalian Buriats came to these parts only towards the end of the seventeenth century from the Khalkhas. While Mongols and Kalmuks generally continue to live after the usual fashion of Nomads, we find here agricultural pursuits, most likely, howerer, due mainly to Russian influence. Christianity is also making its way. The sum total of the Buriats amounts at present to about 250,000 . Compare also the Polish work of Agathon Giller, Opisanie zabajkalskiéj krainy wo Syberyi (Description of the Trans-Baikalian Country), 3 vols., Leipzig, 1867.

Another tribe separated from the rest of the Mongols is the so-called Hazâra (the thousand), and the four Aimak (i.e. tribes), who wander about as herdsmen in Afghanistan, between Herat and Kabul. In external characteristies they are Mongols, and in all probability they are the remains of a
tribe from the time of the Mongol dynasty. Their language, which shows, of course, Persian influence, is strictly Mongolian, more particularly West Mongolian or Kalmuk, as has been proved by H. C. von der Gabelentz, in his Essay, Ueber die sprache der Hazâras und Aimaks in the Zeitschrift der deutschen morgenländischen Gesellschaft, vol. xx. pp. 326-335.

Agreeably with this threefold division of the Mongols we have also a threefold division of their respective languages: 1) East Mongolian or Mongolian proper; 2) West Mongolian or Kalmuk ; 3) Buriatic.

The dialects just mentioned are found to be in close relation to each other, when we examine their roots, inflections, and grammatical structure. The difference between them is indeed so slight, that whoever understands one of them understands all. Phonetieally a characteristic of them all is the "harmony of vowels," which are divided into two chief classcs: the hard, $a \circ u$; and the soft, $e \ddot{o} \ddot{u}$; between which $i$ is in the middle.

All vowels of the same word must necessarily belong to the same class, so that the nature of the first or root-vowel determines the nature of the other or inflection-vowels; now and then a sort retrogressive harmony takes place; in this fashion that a later vowel determines the nature of the former. The consonants preceding the vowcls arc equally under their influcnce. The Mongolian dialects have no prepositions, but only postpositions, the inflection of the noun being formed by this incthod.

The Mongolian characters, which in a slightly altered form are also in use among the Manchus, are written perpendicularly from above downward, and the lincs follow from left to right, the alphabet having signs for seven vowels and diphthongs derived from them, and for seventeen consonants. All these are modified in shape according to their position, in the beginning, middle, or end of a word, and also by certain orthograplic rules. In Mongolian and Manchu writing the syllable (i.e. the consonant together with the vowel) is considered as a unit, in other words a
syllubarium rather than an alphabet. The existing characters are lincal desceudants of the original Uigurian forms, which were themselves derived from the Syriac, having been brought to the Uigurs by Nestorian missionarics. An Indian and Tibetan influence may also be noticed, while the arrangement of the characters in perpendicular lines is common to the Chincse. Tho writing was brought into its present shape by the learned Lamas Sa-skja Pandita, Phags-pa Lama and Tschoitschi Odser in the thirteenth century (cf. H. C. von der Gabelentz, in the Zeitschrift f. d. Kunde d. Morgenlandes, Göttingen, 1838, vol. ii. pp. 1-21, Versuch über cine alte Mongolische inschrift), but is exceedingly imperfect. Every onc who has tried to read Mougolian knows how many difficulties have to be overcome. It will thoroughly try the patience of a student to read many words correctly, while he has no means of feeling absolutely sure that he is right in every instance. This difficulty arises from the ambiguity of certain letters, or from the fact that the same sigu is to be pronounced differently according to its position in the word. Thus there are no means for distinguishing the $o$ and $u, \ddot{o}$ and $\ddot{u}$, the consomants $g$ and $k, t$ and $d, j$ and $s(d s)$. $A$ and $e, o(u)$ and $\ddot{o}(i i), a(e)$ and $n, g$ and $c h, t(l)$ and on are liable to be mistaken for each other. Other changes will be noticed and a voided by advanced students. It is a great defect that such common words as ada (a fury) and ende (here), ende (here) and nada (me), aldan (fathom) and altan (gold), amidu (in life) and amitn (alive), iredschï (coming) and iradschu (cutting), ordu (court-residence) and urtu (long), onochu (to seize) and unuchu (to ride), bal (honey) and bel (middle of the body), tere (this) and dere (pillow), gebe (said) and kebe (made), gem (evil) and kem (measure), ger (house) and kei (how), naran (sun) and nere (name), jagon (what) and dsagon (hundred), should be written exactly alike. This list might be largely increased. Such circumstances do not encourage the study of the Mongolian languages, as it takes a long time before the beginner is able to avoid ambiguities which are indeed troublesome to the most adranced scholar. These
defeets apply equally to the Mongolian and Buriatic alphabets.

In 1648, the Saja Pandita composed a new alphabet (the Kalmuk), in which these ambiguities are avoided, though the graphic differences between the two alphabets are only slight. The Kalmuk alphabet avoids the angular and clumsy shapes of the Mongolian, and has, on the contrary, a rounded and pleasing shape. The Kalmuk alphabet has also this great advantage, that every sound has its distinct graphic character; a mistake between two characters can scarcely oceur. The Kalmuk words once mastered, they can be easily recognized in their Mongolian shape. The dialectical differences are also very slight.

I consider, therefore, the Kalmuk to be the key of the Mongolian, and that it should form the groundwork of Mongolian studies, and I advise every one who wishes seriously to study the Mongolian languages, to commence his labours with the Kalmuk. The Kalmuk and East Mongolian dialects do not differ much, at least in the spoken language; but the Kalmuks write according to their pronunciation, while the Mongolian orthography exhibits much the same spectacle as French and English, where the actual pronunciation is strangcly at variance with the orthography.

Sōn ( $d s o \bar{n}$ ) 'hundred,' is pronounced alike by the Kalmuks and the East Mongolians; but while the former follow this pronunciation also in writing, according to Mongolian orthography the word appears in the form dsagon. The dialectic difference between the two languages very frequently lies only in a different pronunciation of some letters. Thus East Mongolian $d s$ is in Kalmuk soft s, etc. The chief difference between the two dialcets lies in the fact that in Kalmuk the soft guttural $g$ between two rowels is omitted, while through the joining of the two vowels, a long vowcl is produced. In the pronunciation of common East Mongolian the $g$ is likewise omitted, but it is written; while in Kalmuk, as just now mentioned, the guttural can only be traced through the lengthening of the syllable. Thus we find: Mongol chagan 'prince,' Kalmuk chän; M. dugon 'voice,
sound,' K. dōn, dūn; M. dologan 'scven,' K. dolōn; M. agola 'mountain,' K. ōla, ūla; M. nagor 'lakc,' K. nōr, nūr; M. ulagan 'red,' K. ulān; М工. jagon 'what,' K. jōn ( $j u \bar{n}$ ) ; M. dabagan 'mountain-ridge,' K. dabian ; M. sanagan 'thought,' K. samän; M. baragon 'on the right,' K. barön, barūn; M. schibagon 'bird,' K. schoumon ; M. tschilagon 'stone,' K. tschitōn (tschutūn) ; M. dschirgogan 'six,' K. surgān; M. degere 'high, above,' K. dēre; M. uguchu' 'to drink,' K. ūchu; M. togodschi 'history,' K. tōlschi, tū̀lschi; M. egüden 'door,' K. ̈̈̈len; M. dscgün 'left,' K. sön ; M. ögedc 'in the lecight,' K. öllö; M. ögcled 'the Kalmuks,' K. ̈̈̈̈rl; M. ïleged 'if onc has donc,' K. ̈̈ilēd; М. kübcgün 'son,' K. köıı̈̈n ; M. gcgün 'mare,' K. gü̈n; M. kegü̈' 'corpse,' K. kï̈r'; M. charigal 'returncd,' K. chareell, etc.

The Buriatic, in these peculiaritics, is almost always found with East Mongolian, with which it is in every respect closely allied. In the pronunciation of some letters the transition of East Mongolian tsa, tse, into Buriatic ss is noticeable; for instance: Mong. tsetsek 'flower,' Buriatic sscssek; M. tsak 'time,' B. ssak; M. tsagan 'white,' B. ssagan ; M. tsetsen 'prudent,' B. sscssen. S.s is sometimes pronounced like (the German) ch: East M. ssain 'good,' B. chain; M. ssedkil 'heart,' $B$. chectkil. $K$ in the beginning or middle of a word is always aspirated.

Another important fact to be noticed, is that a clear distinction must be drawn between the higher and nobler written or book-language, and the common or conversational language of every-day life. The difference between the two is very considerable, and may be fairly compared to that between the Modern High German book-language, and the different dialects. All grammars and dictionaries as yet published treat only on the book-language, and so, also, with a few exceptions, the published literary documents are written in this higher style. The exceptions are the Gesser-chan, and the Siddhi-kïur and Djangariad; the two latter published by Golstunskij. The popular or conversational language has not yet been fixed in writing till very lately by the work of A. Pozdnjejew, which contains rich materials for popular literature, and is an important step in this direction.

The literature known up to the present date eonsists mostly of translation from the Tibetan, the holy language of Buddhism. Tibetan is even still the language of the learned. It is well known that the Tibetan Buddhist literature is itself translated from the Sanskrit; hence, now and then, through Mongols and Kalmuks we get acquainted with Indian works, the originals of which are not known in Sanskrit. Such is the case, for instance, with the tales of Siddhi-kür. Many books have also been translated from the Chinese. Most of the writings are of a religious, historical, philosophieal, medical, astronomical, or astrological character. Favourite subjects are folk-lore and fairy tales. Among the religious books, perhaps the most important is that eontaining the legends entitled, üliger ün dalai 'ocean of comparisons.' This is the book which the late I. Jaeob Schmidt edited under the title, Der Weise und der Thor, in Tibctan and German, Petersburg, 1843. To this may be added the boddhi mör, or 'the holy path,' the altan gerel 'gleaming of gold,' the mani gambo, and jertüntschü jin toli 'mirror of the world.' Little has as yet been publishcd, but what has been will be mentioned below. What has been known of poctical literature beforc Pozdnjejew is scarcely worth mentioning. In some parts of the historical and narrative literature we find, whercver the narrative takes a higher flight, an admixture of poetical diction. The poetry appears in a certain parallelism of the phrases, with a return either of the same endings (rhymc), or with the same words (refrain). Frcquently we find, besides the rhyme or refrain, alliteration. (Cf. the essay of H. C. von der Gabclentz in the Zeitsehr. f. d. Kunde des Morgenlandes, Götting, 1837, vol. i. pp. 20-37, Einiges über Mongolische poesic, an essay which has, however, been superseded by the work of Pozdnjcjew.)

I shall now cnumerate such books as have been published to advance the knowledge of the Mongolian languages, some being original Mongolian texts, others the same trauslated into modern European languages; and I take first a few writings of a more general charaeter which cmbrace the wholc.

Besides the two excellent writings of W. Schott, already alluded to, viz. Versuch über die Tatarischen spruehen, Berlin, 1836, and Ueber das Altai'sche oder Fimnisch-Tutarische sprachengesehleeht, Berlin, 1849, Abcl Rémusat's Recherches sur. les langues Tartares, on mémoires sur. différents points de la grammaire et de la littérature des Mandchous, des Mongols, des Ouingours et des Tibétuins, vol. i. 4to. pp. li. and 398, Paris, 1820, must be mentioned; and, also, Nawrocki, Short remurlis on the difference between the Falmuk and Mongolian languages, which appeared in Russian in the Utsehenyja Zapiski (Litcrary News) of the Kasan University in 1840, iii. pp, 160-176.

Not much praise can be bestowed on the labours of Boller, Die surzelsuffixe in den ural-altaischen sprachen (Vienna, 1857), Die übereinstimmung der tempus- und moduseharaktere in den ural-altnischen sprachen (18.57), and Die pronominalsuffixe des wal-altnischen verbums (1858). On the other hand, the essay of W. Schott, Das zahhiort in der Tschudischen sprachenelasse, rie auch im Türkischen, Tungusischen und Mongolischen (Abhandlungen der Berliner Akademie, 18033), is deserving of the highest praisc ; as is, also, the sanc learned professor's Altajische studien oder untersuchungen auf dem gebiete der Altai-sprachen (from the third fasciculus the title is Auf dem gebiete der Tatarischen (Twranischen) sprachen), 5 fasc. Berlin, 1860-1870, from the essays of the Berlin Academy, a very ingenious paper, full of sound and acute etymologies and explanation of forms.

As considerable may be noticed the essay of G. Bálint, written in Hungarian, Pirhuzam a magyar és mongol nyelo terén (Parallelism between the Magyar and Mongolian Languages), crown 8ro. pp. xxx. and 62, Budapest, 1877. The national pride of the author scorns the idea that his people should be closely related to the poor hunters and fishermen of the Ugro-Finn race; but this has been proved long ago by the professors of a rational science of language. Accordingly Bálint, in his introduction, opposes Hunfalvy, who maintains this view; and himself tries to prove the Magyars to be as closely as possible connected with the world-storming Mongols. It can be easily conceived that such a thought
would flatter the national pride of the Magyars; it is, however, quite impossible. Every rational etymologist knows that the Magyar language is much more closely allied, as far as dictionary and grammar are concerned, to the Finno-Ugrian than to the Mongolian; though it is quite conceivable that the Magyar has many roots and words in common with the Mongol, inasmuch as both belong to the Ural-Altaic branch. But always valuable is the small comparative vocabulary of the Magyar and Mongolian languages (pp. 1-62), though in this there are many forced and impossible etymologies.

I reserve till the end of this paper a full reference to A. Pozdnjejew's work, which treats likewise with all three dialects, and pass to a discussion of the individual dialects.

## A. East Mongolian or Mongolian Proper.

## a. Grammars and Exercise Books.

I. J. Schmidt, Grammatik der Mongolischen sprache, 4to. pp. xii. and 179, St. Petersburg, 1831.

Jos. Kowalewski, Kratkaja grammatika mongolskago knischnago jazyka (Short Grainmar of the Mongolian written language), 8vo. pp. 197, Kasan, 1835.

Robert Yuille, Short Mongolian Grammar (in the Mongolian language) ; xylography from the English mission press before Selenginsk beyond the Baikal, 1838. This book will always remain unique.

Alcxius Bobrownikow, Grammatika mongolsto-Kalmycliago jazyka (Grammar of the Mongolian-Kalmuk Language), 8ro. pp. xi. and 400, Kasan, 1849. An excellent book, in which Kalmuk and Mongolian are placed side by side. Inflection and syntax are fully treated, and many cxamples of the language are given.

Carlo Puini, Elementi della grammatica mongolica, Svo. pp. x. and 42 , Florence, 1878. This is a bricf abstract of tho grammar of Schmidt.

Alexander Popow, Mongolskaja christomatija (Mongolian Chrestomathy), vol. i. 8vo. pp. x. and 318; vol. ii. pp. 1-199
eontaining the dietionary, Kasan, 1836. A work admirably adapted for beginners. By the same author is Arithmetikut na mongolskom jazykje (Arithmetie in the Mongolian Language), Kasan, 1837.

Jos. Kowalewski, Mongolshija chrestomatija (Mongolian Chrestomathy), Part I. 8ro. pp. xvi. and 591, Kasam, 1836; Part II. 8vo. pp. iv. and 595, 1837. An exeellent work, with a full seleetion of reading exereises, and an equally exeellent commentary to the sume.
(Sehergin), $A$ collection of maxims, prayers, fables, tales, sayings, aneclotes, and dialogues, translated from the Russian into Mongolian, with a Mongolian-Russian dictionary (Russian), 8vo. pp. vi. and 327, Kasan, 1841.
Louis Rochet, Sentences, maximes et proterbes Mantchonx et Mongols aceompagnés d'une traduction frangaise, des alphabets et d'un cooabulaire de tons les mots conternus dans le texte de ees deux langues, 8vo. pp. vi. and 166, Paris, 1875.

## b. Dietionaries.

I. J. Sehmidt, Mongoliseh-dentsch-russisehes wörterbueh nebst cinems deutsehen and cinemb russisehen cortregister, 4 to. pp. viii. and 616, St. Petersburg, 1835.

Jos. Etienne Kowalewski, Dietiomnaire mongol-russe-français, vol. i. 4to. pp. xiii. and 594, Kasan, 1844; vol. ii. 4 to. pp. 595-1545, 1846; vol. iii. 4to. pp. 1547-2690, 1849. An excellent dictionary.

## Texts.

Gesehiehte der Ost-1Yongolen und ihres Fürstenhauses, verffasst ron Ssanang Ssetsen Chungtaidsehi der Ordus; ans dem Mongolischenübersetzt, und mit dem Originaltexte, nebst Anmerkungen, Erlauterungen und Citaten aus andern unedirten Originalwerken herausgegeben con Is. Jae. Schmidt, 4to. pp. xxiv. and 509, St. Petersburg, 1828. Compare also Abel Rémusat, Olserrations sur l'Histoire des Mongols Orientaux, de Sanang-Setsen, 8ro. pp. 88, Paris, 1832 (Extrait du Nouveau Journal Asiatique).

Die Thaten des Vertilgers der zehn Uebel in den zehn Gegenden, des verdienstrollen Helden Bogda Gesser Chan; eine mon-
golische heldensage, nach cincm in Pcking gedruckten excmplare aufs neue abycdruckt unter der Aufsicht des Akademikers Is. Jac. Schmidt. Edited by the Imperial Academy of Science, 4to. pp. 191, St. Petersburg, 1836.

Die Thaten Bogda Gesser Chan's, des Vertilgers der worrzel der achn übel in den aehn gegenden. Eine ostasiatische Meldensage, uus dem Mongolischen übersctzt von Is. Jac. Schmidt, 8 vo. pp. xv. and 287, St. Petersburg, 1839.

Cp. W. Schott, Ueber die sage von Gescr-Chan (Transactions of the Berlin Academy of Science, Phil. hist. class, 1851, pp. 263-295), and B. Jülg, Uebcr die griechische hcldensage im wiederscheine bei den Mongolen (from the Transactions of the Versammlung deutscher Philologen und Schulmänner zu Würzburg, 1868 (Leipzig, 1869, pp. ฮ๊8-71).

Altan Tobtschi. Mongolian Chronicle in the original, and translation, with addition of the Kalmuk text of the history of the Ubaschi Chuntaidschi and his war with the Oirats. Translated by the Lama Galsang Gombojew (Russian), sixth part of the "Arbeiten der orientalischen abtheilung der Kaiserlichen archäologischen gesellschaft," 8 vo. pp. xiv. and 234, St. Petersburg, 1858.

Ardschi Burdschi. Mongolsinja powjest (Ardschi Burdschi, a Mongolian Tale). Translated from the Mongolian into Russian by the Lama Galsang Gombojew, 4to. pp. 19, St. Petersburg, 1858.

Schiddi-Kür, Subranie Mongolskich skazok (Siddhi-Kür, a Collection of Mongolian Tales). Translation from the Mongolian into Russian by the Lama Galsang Gombojew, 8vo. pp. 102, St. Petersburg, 1865. An extract from the Ethnographical gazette "Sbornik" of the Russian Geographical Society, 1865.
B. Jülg, Mongolische mürchen. Erzählung aus der Sammhing Arelschi Bordschi. Ein scitenstück zum gottesgericht in Tristen und Isolde. Mongolisch und deutsch nobst dem bruchstück aus Tristan und Isolde. Als probe ciner gesammt-ausgabe von Ardschi Bordschi und den noun nachtrags-erä̈hlungen des Siddhi-1̌ür, 8vo. pp. 37, Imsbruck, 1867. This is the first Mongolian print out of Russia.
B. Jülg, Mongolisehe märehen-sammlung. Dic neun märehen des Siddhi-Kür nueh der ausführlichen reduetion und die gesehichte des Ardschi-Bordsehi Chen (Mongolian, with a German translation and eritieal notes), 8vo. pp. xvi. and 256, Innsbruek, 1868.
B. Jülg, Mongolisehe mürchen. Die neun naehtrayss-erzählungen des Siddhi-Kür und dic gesehichte des Ardsehi-Bordschi Chan. Eine Fortsetzung zu den "Kalmükischen Mürchen." Translated from the Mongolian, with Introduetion and Notes, Sro. pp. xvi. and 132, Innsbruek, 1868.

We cannot pass by in silence the Sagas from the far East; or, Kalmouk and Mongolian Traditionary Tales. With historical prefuee and cxplanatory notes. By the Author of "Patrañas; Household Stories from the Land of ILofer," 8vo. pp. xx. and 420, London, Griffth and Farran, 1873, whieh contains from page 1-324 a complete rerbal, though now and then misunderstood, translation of the Siddlhi-Ḧ̈r and Ardseli-Bordschi of the present writer. The author does not mention this on the title-page, and from page v. of the prefaee it might be naturally inferred that it uras her oun work.

We have finally to mention that between the years 1867 and 1879, in the Synodal Printing Office at St. Petersburg, a number of Christian liturgical writings have been printed in Mongolian and Russian, for the use of sueh of the Mongols as have been eonverted from Buddhism to Christianity. Sueh are primers for ehildren, ealendars, eatechisms, legends of saints, Psalm-books, missals, ehureh rituals. It is not necessary to mention these severally, as they cannot elaim to be strictly scientific.

## B. Kalmuk.

## Grammars.

Alexander Popow, Grammatika Kalmyekago jazyka (Grammar of the Kalmuk Language), 8 ro. pp. ix. and 390, Kasan, 1847. A good book.

Alexius Bobrownikow, Grammatika mongolsko-kalmyekago jazyka (Grammar of the Mongol-Kalmuk Language), 8ro. pp. xi. and 400 , Kasan, 1849. We have already adverted to the merits of this book when speaking about Mongolian grammars.
H. A. Zwick, Grammatik der West-Mongolisehen das ist Oirad oder Kalmükisehen Spraehe, 4to. pp. $a-d$ and 149, s.l.s.a. The preface is dated Königsfeld in the Grand-Duchy of Baden, November, 1851. The book is autographed. The author has lived for many years as a Moravian in the colony at Sarepta (Province of Astrachan), near the Kaspian, in intercourse with the Kalmuks, partly as a missionary. The book, however, has nothing to recommend it.

## Dietionaries.

The earliest Kalmuk dictionary is that by Philip Joh. von Strahlenberg, Das Nord- and Oestliehe Theil con Europa und Asia, in so weit solehes das gantze Rassisshe Reieh mit Siberien und der grossen Tatarey in sieh begreifet, ete., 4to. pp. xxvi. and 438, Stockholm, 1730; pp. 137-156: Voeabularinm CalmuekoMungalieum.

It was translated a few years later into English under the title, An Historieo-Geographieal Deseription of the North and East Parts of Europe and Asia ; but more particularly of Russia, Siberia and Tartary; both in their Aucient and Modern state, together with an entire new Polyglot Table of the Dialeets of thirty-two Tartarian Nations; and a Vocabulary of the Kalmuk-Mungalian Tongue, as also a lurye and aceurate Map of those Countries, and variety of Cuts representing Asiatiek-Seythian Antiquities. Written originally in Migh German by Mr. Philip John won Strahlenberg, a Suedish Offieer, thirteen years Captive in those parts. Now faithfully translated into English, 4to. pp. ix. and 463, London, 1738. The vocabulary is to be found oll page 142.
H. A. Zwick, IIandbueh der Westmongolisehen spraehe, 4to.; pp. 1-100 are autographed; pp. 401-482, containing the German index to the dictionary, are printed; s.l.s.a. It appeared, however, in 1852. The title-page runs, geaeieh. a. gedr. v. I. N. Heinemann in Hüfingen (Grand-Duchy of Baden). It is a rather voluminous dictionary; it lacks, however, arrangement and scientific method; everything is confused; but it is of some valuc on account of its being the most complete existing vocabulary.

Parm. Smirnow, Kratkij russko-kalmyckij sloura. (A Short Russian-Kalmuk Dietionary), 8vo. pp. 127, Kasan, 1857.

Const. Golstunskij, Russko-Kalmyckiji slorcar (A RussianKalmuk Dictionary), 8vo. pp. iv. and 136, St. Petersburg, 1860.

A complete Kalmuk-German Dictionary to the tales of Siddhi-Kur, with many syntactical contributions, is to be found in my edition of the Siddhi-Kür, on pp. 135-223.

## Texts and Translations.

In the Nomadische Streifereien of Benjamin Bergmann, to which I alluded above, are translations, or partly paraphrases from the Kalmuk. Thus:
Vol. I. pp. 247-351, Ssiddhi-Kïr, Mongolian Tales.
III. pp. 185-230, The Mirror of the World, a Mongolian Document, i.e. a Buddhist Cosmology.
pp. 231-302, Bokdo Gässürchan, a Mongolian Religious Writing in two Books. This is the so-called Abridged Gesscr.
IV. pp. 3-180, Goh Tschikitu, a Religious Document in four books, from the Mongolian. An attractive heroic story.
pp. 181-214. An Epic Poem taken from the Dschangariad (fragment).
I further mention:
Alexius Bobrownikow, Dschangar. Narodnaja Ralmyckaja sliazka (Dschangar, a Kalmuk Popular Tale), 8vo. pp. 30, St. Petersburg, 1854. It is a Russian translation of the Dschangariad, and a reprint from the Advertiser of the Imperial Russian Geographical Society, St. Petersburg, 1854, rol. v. p. 99 sqq. This Russian translation, by Bobrownikow, was rendered into German by Franz von Erdmann in the "Zeitschrift der deutschen morgenländischen gesellschaft," Leipzig, 1857, vol. xi. pp. 708-730, Kalmückischer Dschangar. Erzählung der Heldenthaten des erhabenen Bogdo-Chan Dschangar.

Galsang Gombojew, History of the Ubaschi Chuntaidschi, and of his war with the Oirats. A Kalmuk text, with a

Russian translation, in the above-mentioned Altan Tobtseli, St. Petersburg, 185̃8, pp. 198-224. A poetic heroic story.
B. Jülg, Die märehen des Siddhi-Kür. Kalmükisch. X. Erzählung, fol. pp. 6, Vienna, 1861. This was published as a specimen of an edition which subsequently appeared.

Const. Golstunskij, Ubasehi-Chun Taidsehijn tūdsehi, narodnaja Kalmyekaja poema Dsehangara $i$ Sidditı Kürryjn-tūli, izdanyja na Kalmyckom jazylije (The history of the Ubaschi Chun-Taidschi, the Kalmuk Popular Poem Dschangar, and the tales of the Siddhi-Kür), edited in Kalmuk, autoyraphecl, entively Kalmuk, St. Petersburg, 1864, oblong fol. The history of Ubaschi on pp. 1-7, Dschangar, pp. 7-74, SiddhiKür, pp. 48.
B. Jülg, Die märehen des Siddhi-Kür. Kalmüliseher text mit dentscher übersetzung und einem kalmükiseh-dentschen wörterbueh, 8vo. pp. xvi. and 223, Leipzig, 1866.
B. Jülg, Kalmülische märehen. Die märehen des SiddhiKür oder Erzählungen eines verzauberten Todten. Ein Beitray zur. Sagenkiunde anf buddhistischem geliete. Aus dem Kalmükischen übersetzt, 8vo. pp. vi. and 69, Leipzig, 1866.
K. Th. Golstunskij, The Mongol-Oirad Laus of the Fear 1640, the Supplementary Commands of the Galdan Chun-Taidsehi, and the Lar's compiled for the Wolga Kalmuks under the Kalmul: Chan Donduk-Dasehi, Kalmuk text, with a Russian translation and notes (Russian), 8vo., introduction pp. 1-16, text pp. 33, translation and notes pp. 35-143, St. Petersburg, 1880.

## C. Burlatic.

## Grammars.

M. Alexander Castrén's Versueh einer Burjätischen spraehlehre nelst kurzem wörterveracichniss. Herausgegeben ron Anton Schiefner, 8vo. pp. xv. and 244, St. Petersburg, 1857.
A. Orlow, Grammatilia Mongolo-Burjatsliago razyowornago jazyla (Grammar of the Mongol-Buriatic Colloquial Language), 8vo. pp. x. 265 and iv. Kasan, 1878.

The book of Orlow is distinguished by the solidity and soundness of its author. It abounds in good examples.

Instead of the original Mongolian types, a Russian transcription is used. At all events, the grammar is much more thorough and rich in instructive matter than is the essay of Castrén.

As I mentioned abore, the Buriats are being gradually won over to civilization, and even to Christianity. An attempt has been made to promote this end through instructive writings. I may name, in this respect, a Christian tract (most probably translated by I. J. Schmidt), under the title ssain amugulang un jabudal un mör (path of the blessed conduct), small 8vo., pp. 28, Petersburg, 1818, in Mougolian types. I may also mention that this tract was translated and published in Kalmuk, pp. 14.
A similar tract, which contains the Christian doctrine, prayers, the creed, the ten commandments, etc., was printed s.l.s.a. in Mongolian types, small Sro. pp. 30. It has been translated like the former into Kalmuk, pp. 26.
N. Boldonow, Daida-delchein uschir (o mirozdanii) (on the world-structure), 8 vo. pp. 29, Irkutsk, 1862. Buriatic, in a Russian transeription.

Utschenie o sucjatoj christianskoj ujerje, etc. (information on the Christian creed), expounded in conversations with the Buriats, together with a translation into the dialect of the Buriats north of the Baikal, 8ro. pp. 148, Kasan, $18 \pi \%$. Russian and Buriat, the latter in a Russian transcription.

Schitie sujatitelja Nikolaja, episiopa Myrlikijskago (Life of the High Priest Nicholas, bishop of Myra in Lycia). In the dialect of the Buriats north of the Baikal, 8vo. pp. 31, Kasan, 1879. Buriat transcribed in Russ.

I must add that, formerly, the Russian, more recently the English Bible Society, have endeavoured to proride good translations of the Sacred Bocks of the Old and New Testament. I think I may fairly mention these among literary monuments, as, owing to the rarity of Mongol-Kalnuk texts, they were for a long time the only source of our knowledge of the language. Besides this, they are distinguished by the accuracy of the translation, and are thus deserving of the
highest praise. At the request of the Russian Bible Society, I. J. Schmidt translated into Mongolian :

The Gospel according to S. Matthew, sm. fol. pp. 118, St. Petersburg, 1819.

The Gospel according to S. Mark and S. Luke, sm. fol. pp. 222, St. Petersburg, 1821.

The Gospel according to S. John, sm. fol. pp. 99, s.l.s.a.
Acts of the Apostles, sm. fol. pp. 143, St. Petersburg, 1820.
And into Kalmuk:
The Gospel according to S. Matthew, sm. fol. leaves 59.
The Gospel according to S. Mark and S. Luke, sm. fol. pp. 225.

The Gospel according to S. John, sm. fol. pp. 97. The same in a modern reprint, 12 mo . pp. 145, s.l.s.a.

The Acts of the Apostles, sm. fol. pp. 137.
Two English missionaries, Edward Stallybrass and William Swan (and for a time, at least, Robert Yuille), have lived for twenty-three years among the Buriats, whom they tried to convert; they had cven set up a printing establishment in Selenginsk so as to be able to print and propagate more easily the writings necessary for their mission. To their labours is due the Mongolian Old Testament, whieh has been published in a thick quarto volume by the London Bible Society. It was translated in Siberia during the years 1836-1840, and was printed at the mission press with the Mongolian types existing in Russia-a fact which is indieated at the end of the divisions which appeared in the coursc of the years in Mongolian. I. Jac. Sehmidt, Mcmber of the Russian Academy of Science at St. Petersburg, had to declare, under an order of the Minister of Education and of the Interior, that the translation was in accordance with the text of the editions recognized by the Protestants. This declaration is printed at the head of every one of the books in Russian.

These enterprising missionarics have also translated the New Testament, which, however, was printed with other type after they were expelled from Russia :

The New Testament of our Lord and Saviour Jesus Christ: translated out of the original Greek into the Mongolian
language, by Edward Stallybrass and William Swan, many years missionarics residing in Sibcria; for, and at the cxpense of, the British and Forcign Bible Socicty, 8vo. pp. 925, Loudon, 1846.

In conclusion, I must call special attention to the frequently quoted grand work of A. Pozdnjcjew, who was the first to introduce us to the popular literature of the Mongols. The book in question has the title: Obraztsy narodnoj literatury Mongolskich plemen, etc. (Specimens of the popular literature of the Mongolian tribes). Part I. Popular songs of the Mongols, collceted and cditcd, with additional notes on the character of the popular poetry of the Mongolian tribes, on the poetry of the highcr literature, and the artificial character of the Mongol rersification, 8 ro. pp. ri. and 346, St. Petcrsburg, 1880.

The author lived for three years among the different Mongolian tribes, and collected much and valuable matcrials for his work, among which may be mentioned the very valuable historic works entitled erdenijn erike, kökö debter, schara tūlschi, juan tschao, publications which will provide a rich mine for Mongolian researches. The author contemplates finishing his work in four volumes. The present volume is extremely rich in instructive matter, and makes us acquainted, as it were, with a new world. In pp. 1-43 we have the original text of the Mongolian, Kalmukian, and Buriatic popular songs. Then follows, in pp. 60-319, the text in a Russian transcription, with a Russian translation, and a copious commentary on the songs. The Russian transcription is especially valuable as giving us, for the first time, an exact notion on the deviation of the present pronunciation from the original alphabet as determined by the written characters. The remarks on pp. 319-346 regarding Mongolian rersification and strophic composition are also deserving of much praise. Every statement is illustrated by copious and practical examples. I look forward anxiously to the publication of the remaining volumes.

Inwsbrtck, July 24, 1881.

Art. VII.-Sanskrit Ode addressed to the Fifth International Congress of Orientalists assembled at Berlin, September, 1881. By the Lady Paṇdit Ramā-bā̄1, of Silchar, Kächär, Assam. With a Translation by Professor Monier Williams, C.I.E.

## च्रो३म्

समुदारमहाशूया बुधा,
भवतां स्वस्ति सदा $S$ सु वृध्धिमत्।
प्रियभाष एभात्तिसत्कृती:
हृपया सीकुरुता ऽनघा मम ॥१॥
विकला हृतभूष एा $\$$ धुना
जरती संख्कृतभारती विद्।
चहहहाद्य चिरादसंस्कृता
श्रांं वः सुमतोनुपस्थिता॥ २॥
द्य यमार्त्तर वेएा पीडिता
विलपत्यन्तरमर्म्मभेदिना।
शृ शुता S वहिता यथाह्ययं
प्रविशेत् चीएतनरो भवच्क्रुती: ॥ ३॥
" हा: 一
परिवर्वर्तिनि नित्यशী जग-
त्यचलं किं नु तद्सि यन्मुरुः।
विधिदुर्झसिते म्रमाकुलं
न घटीयन्त्रद्शां प्रपद्यते ॥ ४ ॥
तडितो s पि गति: द्वाचिज्जने-
रिह निर्योष्यत एधितग्रमेः।
न तथापि विधेरववचेष्टितं
महदायासशุतैश्चिरं ह्वतैः ॥ ५॥
सुभगा $s$ हमभूवमेकदा
बहुपु नेप्टसमृद्धशालिनी।

भगिनीरतिवर्ग्य मेडपरा
भुवि मान्या भुवनेकमुन्द्री ॥ ६॥
कवयो $s$ खिलमीहनस्वरा
विदुपो(sic) दार्श्रनिकाः कलाविद्।।
गयका अ्रपि नीतिकोविद्रा
गुरुविज्घानविशेपमर्डता: ॥ ७॥
अन्रनशं नवदिव्यभूषलः:
सब्रतैसे बत माममएडयन्।
उ्रभवच्चिरजीवनवृतं
मम सेवैव यद्रीयमचतम् ॥ $\begin{aligned} & \|\end{aligned}$
नदनिर्व्वचनीयविज्ञता
मुकुराएां मम केलिसम्ननाम्।
अ्रवनिम्टमिहाद्य ख एडशः:
परितो ध्वस्तमहो निद्र्श्शन् $\|\subset\|$
क्व स मे विभवोऽद्य ते सुता:
क्ठ च वल्मीकभुवाद्यः प्रिया: :।
न कथन्नु ममेदृशी दशा
पुनरावृत्य निरीच्यते sfि तैः ॥ १०॥
विकला हतसाधुपुत्तका
सततं विद्रलहृत् चताङ्गका।
शूववत्पतिता स्यनादृता
ग्वसिते ऽपि चमता न मेऽधुना ॥११॥
मम नाम विलीनतिजसो
मृतभाषेत्यभिधीयते परेः।
द्रति दु:सहदु:बदु:खिता
कथमद्यापि भवेऽ स्मि हा विधे ॥ १२॥
क्वा मदीयविपत्सुदु:खिता
च्नवशिष्टास्तनया ममा $S$ धुना।

पुनरुद्धरां प्रकुर्य्युरि-
त्यहहा ©s शास्तमभून्मया चिरम् ॥ १३३ ॥
क्व पुन: स्वत एव ते sद्य मां
बत नि:शेषयितुं कुबुद्वयः।
समवेत्य विचारयन्यतः
किमिवा sन्यद्धविताs सुखं परम् ॥ १४॥
प्राये: समं मे बत द्वनागरं
संहृत्य तत्सद्मनि रोमनाच्चर् ।
छच्छन्यधिपापयितुं यद्रीदृशी
तेषां मनिः सान्नतदा कथं विपत् ? ॥ १५॥
यद्यात्मजा मे भुवि चिहूमात्नम-
प्युच्छेत्तुमिच्छकन्ति तद्रा क एव माम् ।
रचन्तु कं वा शूरएं प्रयामि है
किं वाऽ पि दु:खावृतजीविताश्या ॥ १ई॥ अ्रासन्पुर्रे दिवसा यदार्यमू-
वीर प्रजा SS सी द तिसर्व्वमुनता।
भ्रूभझिसंच्चालितवि ग्वम एडला
सत्कीर्न्तिभाभासितदिग्रि्यन्तरा॥ १७॥
\#्रार्य्याग्च ते यन्महिमाविमोहितं
लोकचयं यज्जय श्न्दकम्पितम्।
छायेव तद्यातपथानुवर्चकं
विम्यं यदा 5 भूत्किल मन्त्वुग्धवत् ॥ १६॥
वाल्मीकिक्ठ प्ष प्रभृतोनृषीन् बहन्
राज्ञ: सतो रामयुधिधिराद्वान् ।
सीतादय ग्रापि (sic) सती: प्रसूय हा
रत्न प्रसूर्भार तभूरभूच्छुभा॥ १९॥
सेवाद्य सर्व्वच्न परानुवर्चकान्
अ्रात्मद्रुमो च्छेदपर म्वधायितान् ।

पुचान्म्रसूया $S$ नपनेयदुर्यूशा:
अछ्रारमूरार्य्यकल ङ्रस स्दुला ॥ २०॥
किं ते निधे नास्ति महाशूये जलं
विलाव्य शीघ्रं प्रलयाय भारतम्।
संप्रापयितं पृधिवीकल ङ्ञकं
बं मानचिनाद्पसारय प्रभो॥ २१॥
अ्रद्यव भस्मीभवतु ज्वलच्छिखे
ऊताशने भारतमेतद्जसा।
मा कोपि नामास्य पुनः कद् ाचन
सवाक्पथे पापयतु स्लनवि ॥ २२॥
द्व्यादि मातु: करणा गिरो मुहै:
समीरिता न प्रविश्न्यहो ग्रुती:।
यड्झारतानां किमतः परं भवे
त्रपामहास्थर्यंसुदु:खकार एम ॥ २३॥
निस्तेजसो वा विकला: ग्यस्क्छ-
प्रायाश्चिरं दास्सनिपोडितान्तरा:।
वृथिव कखिन विश्शोषितेन किं
तेषां पुरो नष्टधियो हि तेऽधुना॥२४॥
यद्यूयमब्चेन्य (sic) सुदुर्दशगमिमां
समागता उत्नतिसाधनोत्सुकाः।
गीब्वराएवाएास्तद्तीव भारती
प्रजा चिरायोपक्हता भवत्कृते ॥ २४॥
गास्याम(sic) यावद्यृदये भवन्ति न:
प्राएाः मुपूज्यान्भवदीयसद्नु एान्।
जीयास्त नित्यं भवतां सदात्मनां
अ्राशास्महे विश्ववितुः सुमझ़लम्ध॥ ॥६॥ द्वति

रमाबाई
सिलचर काचार उ्रासाम पदेश्
भारतवर्षात् १२-६-ז१.

## Free Translation of the abore Ode. By Professor Monier Williams, C.I.E.

Noble-minded and learned Sirs! may health and prosperity be ever present with you! Kindly receive the expression of my homage and devotion. O men of knowledge, the ancient Sanskrit language is at the present day like an aged mother shorn of her beauty and bereft of her ornaments. For a long time, alas! she has remained unhonoured, and now flees to you well-disposed scholars for protection. In the sharpness of her grief she laments with a heart-rending cry of pain. Listen attentively, that her feeble cry of suffering may enter your ears.
"Alas!" she cries, "in this revolving world every existing thing, however apparently unchangeable, is subject to the caprice of fate, and has its ups and downs like a machine for drawing water from a well. ${ }^{1}$ It is possible for men with great difficulty to track here and there the path of lightning. Yet not in the same way, even with a hundred efforts, can they trace the course of Destiny. Formerly I was like a favourite wife, blessed with many prosperous sons; surpassing all my other sisters I was honoured as the most beautiful woman in the world. Poets, whose songs fascinated the universe, wise men, philosophers, artists, mathematicians, politicians, and men distinguished in every kind of profound science continually adorned me with fresh divine ornaments of their own construction, having vowed to serve me with lifelong, unbroken service. But now, alas ! in my once joyous abode, glittering with the tokens of their unbounded erudition, mere fragments are left scattered as sad examples around me. Where are now these my sons who were my glory? Where my countless friends? How is it that none of them return to look with pity on my condition? With impaired energies, bereft of my noble sons, ever agitated in heart and with wounded limbs, have I fallen unhonoured like a dead body on the ground ; and now I have not even power to draw a singlé breath. Nay, my very speech, deprived as I am of

[^19]all vitality, is described by my enemies as 'dead.' Thus, oppressed by insupportable grief, how can I any longer be said to exist? alas, my destiny! Where are now my remaining children, who are deeply distressed by my calamities? Oh! that they may effect my resurrection-this has long been my prayer. And where are those evil-minded ones who of their own accord take counsel together that they may bring me to nothing? Can any other thing be more painful than this?
"And now they wish to tear away the divine Nägari characters-dear to me as my very soul-from their home and replace them by the Roman letters. If their intention be carried out, will not then a great disaster befall me? If my own children seek in this manner to extirpate all marks of my existence on the earth, who will be my guardians? to whom shall I flee for refuge? What hope shall I have of life when thus overwhelmed with misfortune?
"In former days the land of Bharata was the producer of noble sons and heroic offspring, like jewels; she was exalted above all; her slightest look of displeasure moved the whole globe; her glorious fame illuminated the universe; and the three worlds were fascinated by the greatness of those noble children, and thrilled by the glory of their vietories; and the universe, charmed as it were by the spell of their example, followed in their path like a shadow. Such were the great sages Vālmīki and Vyāsa (Krishṇa), and others, and great kings like Rīma and Yudhishṭhira, and devoted wives like Sita and others. Now, to her ineffaceable disgrace, she brings forth sons like chareoal, whose actions cast a dark blot upon the A$r y a n ~ r a c e, ~ w h o ~ f o l l o w ~ t h e ~ w a y s ~ o f ~ f o r e i g n e r s, ~ a n d ~ l a y ~$ the axe to the root of their own tree of knowledge.
"Is there not sufficient water, O Ocean, in thy vast receptacle to inundate our land? May thy floods, O Lord, prevail to sweep away these stains from her honour! Or this very day may some blazing conflagration quickly reduce this land of Bharata to ashes, and let no voice pronounce her name, even in faltering accents, till every mark of her dishonour be removed!"

Such is the piteous cry uttered by the mother of learning. Yet, alas! how grievous, how disgraceful, how surprising is it that it penetrates not the ears of the Indian people! Why, then, should her voice be rendered hoarse with useless lamentation before such a people-a people long ground down by slavery, bereft of power, energy and intellect, and little better than breathing corpses?

If you noble-minded men, assembled this day in Congress, will look with favour on the miserable condition of the Sanskrit language, and restore her by your efforts to her former exalted position, the people of India will be for ever grateful to you. We will ever sing the praises of your noble qualities, and offer up prayers to the Father of the Universe for your prosperity as long as our hearts throb with life.

## Note.

The young lady Ramā-bāi (author of the above Ode) has recently attracted much attention in Indian society. She is described as a slight, girlish-looking woman of fair complexion, about twenty-two years of age. Her family lived in Mysore, and her brother was a Pandit in the service of the Gaikwär of Baroda. In the bope of ameliorating the condition of their countrywomen, the brother and sister travelled together through Bengal and Assam, delivering leetures on female education to crowded audiences. Unfortunately their further co-operation in this good work was cut short by the brother's death. Since the occurrence of that event Rumit-baii has married a Bengali gentleman-a Wakil by profession, and M.A. of the Calcutta University. She is said to speak Sanskrit fluently, and to be able to repeat the whole Bhägavata Puriṇa by heart. What has gained her the greatest reputation for learning has been her power of improvising Sanskrit verses. On the third day of the Oriental Congress at Berlin, I received a Sanskrit letter from her inclosing the above metrical address, and asking me to lay it before the Congress. This I did, and the original Sanskrit was read, with the proper metrical intonation, by Paṇdit Śyàmajī Krishṇavarmà, before a large meeting of members of the

Aryan section, held in the Mall of the University. Much interest was naturally excited in the minds of those present, by the unusual phenomenon of a lady Pançlit capable of writing such good Sanskrit poctry.

It would be scarcely fair to criticize the young lady's Sanskrit scholarship too severely. Here and there the inadrertencies are obvious, though the greater part of the composition is unexceptionable. In a few cases where the exigencies of the metre-which is Vaitatiya as far as verse 14, and after that Jagati-have prevented my making the necessary corrections, I have indicated the inaccuracies by the word sic. Nor will the original bear too literal a translation, the construction being now and then intricate and obscure. Still I trust my version, though free, will in all cases give a fairly correct idea of the meaning.

After all, the inaccuracies and obscurities are not greater than those in the other two Sanskrit addresses presented to the Congress, and the rerses of Ramā-bāii are, in my opinion, by far the best in point of poetical merit.

Monier Williams.
Oxford, December 21, 1881.

## Art. VIII.-The Intercourse of China with Eastern Turkestan and the Adjacent Countries in the Second Century b.c. By Thos. W. Kingsuill.

The following notes refer to a period which is one of considerable historic interest. In the Far East the Emperor Wu-ti, the most enterprising of the Han dynasty, having broken the power of the Turkish empire of the Hiung-nû, i.e. Kara-Nîrus, was engaged in strengthening the internal administration of China, and in extending its influence abroad. In the west the Romans had, b.c. 146, captured and destroyed Carthage, and had reduced Greece to a Roman province. The Ptolemies yet ruled in Egypt ; and, in Asia, the Syrian empire under the house of the Seleucidæ still survived, but was showing evident signs of decrepitude. In Asia Minor, Pontus was rising into importance under Mithradates $V$., who was one of the first of the more important sovereigns of the continent to enter into close relations with Rome. This position of affairs finally resulted in the great war between his son Mithradates VI. and Rome, which afforded that encroaching power the opportunity of firmly establishing the Roman rule in Asia, and of cventually overturning the decadent power of Syria, already frittered away by internal dissensions between the members of the royal house of Scleucidx.

To the east of Syria lay the powerful state of Parthia, which, founded by Arsaces I. about the year b.c. 250, had now, b.c. 124, descended to the greatest of Parthian monarchs, Mithradates II. His father, Artabanus, had lost his lifc in an attack on the Tochâri, the Ta-hia of the Chincse narrative, who, having accomplished the destruction of the Greck kingdom of Bactria, were threatening the adjacent kingdom of Parthia. Mithradates continued the war and was ultimately successful, taking possession
apparently of Sarangia, and forcing the Scythian tribes who had poured down on Bactria to find a bent for their superabundant encrgy in Afghanistan and the Punjâb.

To the north-west of Parthia lay Armenia, a country geographically of importance in the long-continued disputes of West and East; and its peculiar relations with Pontus and Parthia led to the first contact of Rome with the latter power. Forced at last to take some side in the quarrel of Rome and Pontus, Mithradates II. of Parthia despatched an envoy to the Roman gencral Sylla; and thus, by a curious concatenation of circumstances, it fell to the lot of one man to open negotiations with the two great empires of the East and West, China and Rome.

The Chincse embassy prcceded, however, that sent to the Roman gencral by some thirteen years, and may probably be referred to the year 105 в.c. The power of Rome was already making itself fclt in Asia, but the absence of any allusion to it in the pages of Sze-ma T'sien seems to prove that Parthia had as yet seen no cause to anticipate the struggle for empire which the events of the next few ycars forced upon her. For some years longer she succecded in holding herself neutral in the great war betwcen Rome and Mithradates of Pontus; but the great republic at last compelled her to declare herself, and we find the Parthians for a short period in alliance with Pompey, an alliance, however, sufficiently unnatural to lead to a breach a ferv years later, and finally culminating in the total defeat of the Roman army under Crassus.

The descriptions given in the following pages will serve to explain many of the allusions to Serica and the Seres in the pages of the Augustan poets, and we can the more readily comprehend how Parthia came to be the medium of communication. A misinterpretation of the embassy of Chang K'ien has led to erroneous views on the intercourse of China and the West, and as the accounts of that embassy, taken mainly at second-hand from late Chinese writers, could scarcely be made to tally with what we know of Asia from other sources, much needless doubt has been thrown on the
accounts of the embassy extant. I have in the following notes adhered to the original description given in Sze-ma T'sien's great work, the Shiki, and as Sze-ma was almost a contemporary of the events he describes, his account is naturally more trustworthy than that of later writers, who simply copied his descriptions, or, if they varied, generally did so erroneously.

Two writers from very different stand-points have given us geographical descriptions of Central Asia during the pcriod referred to. In the East, we have Sze-ma T'sien; in the West, Strabo. The Chinese is somewhat the older in date, having been born b.c. 163, while Strabo's birth is attributed to about b.c. 66. As might be expected, the Chinese author is fullest in his descriptions of Eastern Turkestan, while Strabo's recital ends with the lately-overthrown Greek kingdom of Bactria. The Chinese author was acquainted with Parthia, and even with Sarangia, the modern Seistan, while many of the other Central Asian states were known to him by report. Both writers were careful and critical, and hence have arisen many curious and undesigned coincidences, which enable us to gauge the general trustworthincss of both narratives. These coincidences I have remarked on in the notes attached to the text, which is a translation of Chapter CXXIII. of the Shiki or "Historical Memoirs," a work which deservedly holds a high rank amongst histories; and the translation of which in full would add much to our knowledge of the early history of Eastern Asia.

I have preserved the ordinary transliteration of the Chinese names; not that that system is to be considered correct, but that it has for the present become so firmly fixed as to be more familiar to students. The rules for transliteration into the older language, which seems to have partially survived up to the Han dynasty, may be briefly stated: 1st. Non-aspirates in Chinese represent the corresponding surds in the ancient language. 2nd. Aspirates in Chinese represent the corresponding sonants and aspirates. This rule has, however, to be modified on account of the tyranny exercised in Chinese by the toncs over the other essentials of language. The
third rulc，thercfore，is：The third and fourth lower tones being unable to take the aspirate，worls in those tones which，according to rule 2，should begin with an aspirated consonunt，have to exchange the aspirate for the corresponding non－aspirate．The other rules are secondary to thesc；but I may mention the following as essential ：4th．Chinese palatals（ch and ts）are the representatives of older dentals，and in the aspirated series are frequently substituted for original sibilants． 5 th． Ng is the usual representative of r ； n ，however，occasionally taking its place．Sometimes $r$ follows the rule of $l$ ，which may be stated thus：6th．Is initial usually remains unchangerl，but as in Latin 1 is often the substitute for an original d，the same change is atso of common occurrence in Chinese．L final disappears in modern Chinese，and its loss is represented by a lengthened roocel or diplithong，the latter most frequently ao．

The following is mostly a translation from the 123 rd Chapter of the Shi－ki，or＂Book of History，＂of Sze－ma－ T＇sien．Information derived from other sources is inserted in the form of notes．

As a portion has already appeared in print（ride＂Celestial Empire，＂May 6th，1876），I shall only give a summary of the beginning．

Chang－k＇ien had been sent by the Emperor Wu－ti，of the Han dynasty，to try and open communication with the Yueh－ ti（Viddhals），the＇$E \phi \theta a \lambda i$ ítaı of the Greeks，who，having been dispossessed by the Turks（Hiung－nû or Kara－Nirûs），had poured down on the decaying Greek kingdom of Bactria， called by Sze－ma T＇sien Ta－hia 大 夏，i．e．Tochâr－ia，from the Tochâri（TóXapoı of Strabo），who had lately overrun it，and which name survives to the present day as Tokhâristan．

Chang－k＇ien on his road outwards was captured by the Turks，and held in captivity for ten years．Having made good his escape，and nothing daunted，he determined to carry out the object for which he had been sent．Travelling westwards for ten days he arrived at Ta－wan 大 宛，a country which forms the central feature in the narrative，and re－ garding which much misapprehension has existed．Ta－wan
has been usually identified with Ferghâna or Kokand，the valley watered by the upper streams of the Sir Daria，and recently annexed by Russia，but the narrative will show that it must be placed east of the great Pamîr steppe，and most probably near the site of the modern Yarkand．I hare been only able to find one allusion in classic writers to a district which can be identified with Ta－wan of Sze－ma T＇sien． Strabo ${ }^{1}$ speaks of Bactria as extending to the countries of the Sêri（＇T＇sin）and Phryni；and the latter of these（the $w$ of the Chinese word representing $v r$ in Sanskrit，or $\phi \rho$ in Greek），is apparently the Wan ${ }^{2}$ or ta－Wan of the Chinese author，for one form is used as frequently as the other．

Chang－k＇ien tried to induce the people of Ta－wan to enter into a lcague under the Chinese suzerainty，with the object of driving back the Turks then encamped along the slopes of the Tien－shan．In this，although rcceived with civility，he was unsuccessful；and he went on to K＇ang－ku 康 居，ap－ parently Karakul，on the Pamîr．Passing through K＇ang－ku， Chang－k＇ien came to the Yueh－ti，who dwelt then on the banks of the Tu－kwai shui 都噜水，or Surkh－ab of to－day， their southern boundary being formed by the Kwai shui （the Wakh or Oxus）．Though animated with a burning hatred towards the Turks，who had expelled them from their ancient scats in what is now Kan－suh，they could not be brought to agree to the proposition of the Chincse ambas－ sador，who thereupon went on to the＇Tahia（Tochâri）with the object of returning to China through Tibet．After a detention of more than a year，he was a sccond time captured by the Turks，but taking advantage of the confusion caused by the death of the Shen－yû，he finally escaped back to China（b．c．126），after an absence of thirteen years．He was honourably reccived and promoted to high office．

Szc－ma T＇sien then procecds with a geographical description of the countries visited．Ta－wan lay to the south－west of the Hiung－nû territory，and about $10,000 l i$ due west from

[^20]China．The eountry was for the most part settled and the land cultivated，producing both rice and wheat．The in－ habitants made use of wine made from tho grape 萳陶，${ }^{1}$ and possessed many Shen ${ }^{2}$ 善 horses．These were deseribed as sweating blood，and being deseended from a eelestial breed天馬子。There were some scventy citics largo and small in the country，and its population was calculated at about 100,000 ．Its troops used tho bow and spear and shot from horseback．

North－west of Ta－wan lay K＇ang－ku；west，the greater Yueh－ti（EфӨa入ital）；south－west，Ta－hia（Tóxapoı）；north－ east，the Wu－sun 鳥 孫（A Aolavoi）．To the east werc Kan－ mi 扞 穼 ${ }^{3}$ or Kan－mao and Yu－t＇ien 于 實（Khoten）．West of this latter place the rivers flowed to the western sea．East of it into the Im－châk（the salt marsh，later on called the salt water 鹽水，i．e．Lake Lob ${ }^{4}$ ），which was said to have an underground communication with the sources of the Yellow River．Adjoining the Im－ehâk were the states of Low－lân樓 蘭（apparently originally called Dardan ${ }^{5}$ ）and Ku－sze姑師（also called Kiu－sze or Ché－sze 車師，i．e．Akshi ${ }^{6}$ ），the plains outside the cities of which reached to the waters of the lake．

Of Wu－sun we are told that it lay some $2000 l i$ to the north；its people were herdsmen，and similar in their customs to the Hiung－nû．They could produce some 10,000 bowmen， brave in fight．Formerly subjeet to the Hiung－nû，they had attained independence．They married their near relations， and refused to pay homage at court．${ }^{7}$

[^21]North－west of Ta－wan lay K＇ang－ku，${ }^{1}$ whose inhabitants were similar in their customs to the Yueh－ti，and which could produce some 80,000 or 90,000 bowmen．On its south lay the Yueh－ti，on the east the Hiung－nu．

Some 2000 li to the north－west of K＇ang－ku lay Im－t＇sai， called subsequently Im－t＇sai－li－kan ${ }^{2}$（Samarkand），very similar in its customs to K＇ang－ku，and which could muster upwards of 100,000 bowmen．It adjoined a great marsh，${ }^{3}$ without defined banks，covered with reeds，and（communi－ cating with）the northern sea．

West of Ta－wan，at a distance of 2000 or 3000 li ，lay the Yueh－ti，${ }^{4}$ who dwelt north of the Oxus．Their country

[^22]was bounded on the south by the districts lately conquered by the Tu－hia（Tochâri），and on the west by Ansik 㚣 息 ${ }^{1}$ or Parthia．The Yueh－ti were herdsmen and nomades，and in manners and customs resembled the Hiung－nû．They could muster some 100,000 or 200,000 bowmen．After their defeat at the hands of the Hiung－nú，they lad removed to a distance， and passing Ta－wan had attacked the Ta－hia from the west and defeated them．The Yueh－ti followed the course of the Tukwai（Surkh－ab），and fixed their royal residence on its northern bank．A portion of the tribe，not being able to get away with the others，took refuge in the Nanshan amongst the Tibetans and became known as the lesser Yuch－ti．

About 1000 li to the west of Ta－hia lay Parthia，a very powcrful state，about 1000 li square，and which had dependent on it about 100 cities large and small．It was well cultivated， and had marts where the people and merchants trafficked． Both carriages and ships were used for the conveyance of merchandize，and it had a silver coinage，bearing the image of the king，changed with each successive reign．

To its west was T＇iaou－chi ${ }^{2}$ 條枝（Sarangia or Drangia）； to its north Im－t＇sai－li－kan（Samarkand）．

T＇iaou－chi was on the sea－coast．It was an agricultural country，producing rice．There were large birds ${ }^{3}$ there， with eggs as large as water－jars．It was inhabited by a turbulent people，who were continually changing their sovereigns，and hence fell an easy prey to Parthia．Old men in the latter country said that in Sarangia were the Yok－shui and the Si－wang－mu，${ }^{4}$ but they had not seen them．
came from their country，and they were in the habit of dressing in brightreoloured garments．＂The ruby mines of the Upper Oxus Valley are still celebrated；and Procopius speaks of their light complexions．
${ }^{1}$ 安息 Ngan－sik．The old pronunciation of 安 seems to have been ar； cf．Gr．＂Hpeuos，Sansk．ram．Parthia mas apparently known to the Chinese as Arsak，atter the title of its kings．
${ }^{2} T^{\prime \prime}$ iaou is to be compared with Gr．$\sigma \epsilon \iota \rho \dot{\alpha}$ ，showing that the initial was $s$ ．
${ }^{3}$ Ostriches，whose former range seems to bave extended to these regions．
4 The Yok－shui 弱 水＇weak＇or rather＇dead water，＇is evidently here applied to the Hamun or Lake of Seistan．The Yok－shui of Chinese legend reterred apparently to an ancient lake once occupying the greater part of Eastern

Ta－hia（Tokhâria）was situated about 2000 li south－west of Ta－wan，to the south of the Kwai－shui（Oxus）．It was a settled country，with towns and villages；the people very similar to those of Ta－wan．There was no supreme ruler， each city and town electing its own chief．Its soldiers were weak and cowards in battle，fit only for traders．The Yueh－ ti attacked it from the west，defeated its forces，and estab－ lished their sovereignty．Its population was reckoned at upwards of a million；its capital was Lam－shi－ch＇eng．${ }^{1}$ It had marts for the sale and purchase of merchandize．To its south－east lay Shen－tuh 身毒（India）．

When Chang－k＇ien was in Ta－hia，he noticed some goods which had come from Sze－chuen 䍖，and，asking how they came，he learnt that they had come by way of India．

Of India we learn that it was situated some thousand $l i$ to the south－east of Ta－hia．The country was cultivated，and the manners and customs of its inhabitants were very similar to those of the Tochâri．The climate was damp and hot， and the people made use of elephants in war．It lay near a great river（the Indus）．Chang－k＇ien calculated the distance from Ta－hia to China at $12,000 \mathrm{l}$ ．It was situated to the south－west of the latter country．

India lay upwards of 1000 li to the south－east of Ta－hia． There werc commercial relations between Sze－cluen and India，the two countrics not being very distant from one another．At present intercourse with Ta－hia is carried on with difficulty through Tibet，the Tibctans not being

[^23]friendly．Some few on the north，on aceount of what they ean gain from the Hiung－nû，prefer the shorter road by Sze－ chuen，which is besides free from robbers．

The Emperor heard that Ta－wan had entered into relations with Tochâria and Parthia，all being important countries with large commeree，well－settled land，and arts yielding only to the Chinese．Their military power was but small， and they valued highly the productions and wares of China． To their north lay the Yueh－ti and Kang－ku，fieree in war． They might be iudueed by the hope of profit to enter into relations with China．This was as reasonable a connexion as could be hoped for，since the countries extended some 10,000 $l i$ ，and nine interpreters were needed to reach the different tribes，their authority extending as far as the Western Sea （the Arabian Gulf）．

The Emperor was pleased，and gave his assent to what Chang－k＇ien had suggested，and direeted hin to despatch from Kien－wei 湕 篤，${ }^{1}$ in Sze－chuen，expeditions along the four roads leading outwards from that place，viz．by Mang拢，by Yen 丹，by T＇u 徙，and by Kiung－pak 邛杏。 Each adranced 1000 or 2000 li ．That taking the northern road was stopped by the Tai－tsok 氏 筰，that going south by the Kwen－ming 昆 明 of Sui 偉．${ }^{2}$ The Kwen－ming tribes aeknowledge no supreme ruler．They were a set of robbers，and seized and killed the Chinese travellers，so that this route had to be giren up．They，however，heard that some thousand $l i$ or so to their west lay a country where elephant carriages were used，named T＇in－yût，${ }^{3}$ the people of which carried on a clandestine trade with Sze－chuen．

As the Chinese were now seeking to establish a route to Tochâria，they commenced by endearouring to communieate with T＇in－yût．They first tried to open a road to the south－ western I 夷，and spent much money on it．They did not howerer sueceed，and diseontinued it．Chang－k＇ien affirmed

[^24]that it was possible by this route to reach Tochâria，and a second time tried negociation with the I．He was，however， appointed to conduct a force about to attack the Hiung－nû， as he was well acquainted with the localities where water and provisions were to be found，so that the army should not suffer from their want．He was also invested as Marquess of Powang．This was in the sixth year of the term Yuen－so （в．c．123）．

The next year he was appointed escort officer，and ordered， in conjunction with General Li，to lead the right wing in an attack on the Hiung－nû．The Hiung－nû surrounded General Li ，whose forces suffered severe loss；Chang－k＇ien came， however，to his aid，and succeeded in rescuing many of his troops．

This was the year in which the Chinese despatched the light－horse general（Ho kü－ping）with 10,000 troops to attack the western settlements of the Hiung－nû．He suc－ ceeded in advancing as far as the Ki－lien－shan．${ }^{1}$

The next year the King of Hwan－ya 渾 赖 induced his people to submit to the Chinese，and in consequence Kam－ ch＇eng 金 成，Ho－si 河 西，Si－ping 西 並，and Nam－shan南 山，as far as the Im－chak（Lake Lob），were cleared of the Hiung－n $\hat{u},{ }^{2}$ and for the time their chiefs ceased their encroachments．Two ycars after this the Chinese routed I－ Shen－yu，to the north of the Gobi．

After this the Emperor bethought himself of asking Chang－ k＇ien as to the condition of Ta－wan．Chang－k＇ien had been deprived of his marquessate（on account of the defeat men－ tioncd above）．${ }^{3}$ He replied，＂When your scrvant lived amongst the Hiung－nû，he heard that the king of the Wu－sun was called Kw＇en－mo 昆莫．His father had ruled over a small state lying immediately to the west of the Hiung－nit， which was attacked by the latter，who killed Kw＇en－mo＇s

[^25]father（his name，aceording to the Han－shu，was Nan－tow－ mi 難 挑 康）．Kw＇en－mo was deserted in the wilderness．The ravens brought him meat in their mouths and hovered over him，and a wolf eame and gave him suck．${ }^{1}$ The Shen－yu， astonished at the prodigy，took him and brought him up， and when he grew up to manhood gave him a body of troops to command．

Finding he was a man of ability，the Shen－yu restored to him his father＇s people，and gave to him the protection of the western eities．Kw＇en－mo earefully looked after the interests of his people．He made war on the adjacent petty states，and trained a corps of 10,000 bowmen，and accustomed them to battle．The Shen－yu dying，Kw＇en－mo led his people to more distant quarters，and established himself as an independent prince，as he did not wish to eontinue subject to the Hiung－nû．The Hiung－nû thereupon sent a foree to attaek him，but were unsueeessful，on aeeount of the spiritual protection afforded him as well as the distanee．Without any important fight，they entered into a compaet with him． At the same time，the Shen－yu was much distressed at the progress of the Chinese．

The territory of Hwan－yu had been almost depopulated， and the barbarian tribes were willing to aecept presents from the Chinese，who at that time were on their part willing enough to act liberally towards Wu－sun．They might invite them，therefore，to move eastward，and take up their abode in the former territory of Hwan－yu，where they and the

[^26]Chinese would be as brothers．If they accepted the invita－ tion，it would be equivalent to cutting off the right arm of the Hiung－nu．The Wu－sun placed in close contact with China，and a connexion formed through them with Tochâria in the west，all might then become outer tributary states to the empire．

The Emperor gare his assent to the scheme，and appointed Chang－k＇ien leader，with the rank of Chung－lang 中 郎． He took 300 men，each provided with two horses．The mission was supplied with about 10,000 sheep and oxen，and gold and silk for presents in almost unlimited quantities． Everything was done to expedite it；along the road it was to traverse presents were sent to the neighbouring districts．

On his arrival amongst the Wu－sun，Chang－k＇ien was received with ceremonies similar to those made use of by the Shen－yu．He was much mortified at this：knowing，how－ ever，that barbarians generally were avaricious，he told them that he was the bearer of gifts from the Emperor．If the King were not willing to acknowledge the Emperor as his superior lord，then he would take them back with him．If he agreed to acknowledge him，then he would present them， and affairs would go on as before．Chang－k＇ien then ex－ plained the object of his visit．The people of Wu－sun had the opportunity of moving eastward and occupying the terri－ tory of Hwan－ya；in case they did so，the Emperor would bestow a princess of his own immediate family on the King． The people of Wu－sun（it was urged in reply）would be divided；their king was old，and they dwelt so far from China that they did not know whether it was a large or small state．They were accustomed to scrve the Hiung－nû for a long time；they would still be near them，and their leaders feared the power of the Hu．They did not desirc to change their quarters，nor could their king yicld his pre－ rogative．Chang－k＇ien could not prevail on them to accept his propositions．

I＇wen－mo had some ten sons，the sccond of whom was called Ta－luk 大 筧；he was brave and skilled in leading troops．He moved his quarters with about 10,000 horsemen．

Ta-luk's eldest brother was Tai-tsze, and had a son named Shan-t'sn. 'This brother died young; as his death approached, he expressed to his father his desire that Shan-t'su should become Tai-tsze, in order to preserve the succession. K'wen-mo willingly assented, and after his death Shan-t'su器 娶 became Tai-tsze. Ta-luk was irritated that he had not boen appointed; he plotted with his younger brothers, and raised a rebellion, with the object of compelling bis father to set aside Sham-t'su. K'wen-mo was now old; he was approhensive that Ta-luk would kill his nephew, and sent away the latter to now quarters with 10,000 horsemen. K'wen-1no had still 10,000 horsemen left, which he kept about his own person. The forces of the state were thus divided into three, of which those adhering to K'wen-mo were however the most powerful ; but K 'wen-mo, under the eircumstances, did not dare to enter alone into a compact with Chang-k'ien.

Chance-k'ien in consequence divided his embassy, and sent his lieutenants to Ta-wan, Kang-ku, the greater Yuehti, Ta-hia, An-sik, Shen-tuh, Yu-t'ien, Yu-mui, and the contiguous countries, Wu-sun supplying escorts and interpreters.

When Chang-k'ien returned, he arranged with Wu-sun that they should send ten envoys, with ten horses, to return thanks (for the proposals that had been made), and that they should be able to see the extent and power of China. On Chang-k'ien's arrival, he was promoted to the dignity of Tahing, and made one of the nine grandees, but died the following year.

The Wu-sun enroys having seen China, its great population, its wealth, and liberality, returned to their own country well rewarded, and for many years matters improved between the two countries. 'The envoys sent by Chang-k'ien to Tahia had been successful, and all seemed ready for an arrangement. It was thus communications commenced between China and the countries to the north-west, the way to which had been opened by Chang-k'ien. All sueceeding envoys spoke of the honesty and straight-forwardness of his dealings
with foreign states，and the latter agreed in their apprecia－ tion of his character．

After the death of the Marquess of Po－wang（Chang－k＇ien）， the Hiung－nû，hearing of the communications between China and the Wu－sun，were irritated，and wished to make an attack on the latter，before the Chinese commissioners had time to go southward and form a league with Ta－hia and the greater Yueh－ti．The Wu－sun were alarmed；they sent envoys to China with a present of horses，and asked a Chinese princess in marriage，and that they and the Chinese should be brothers．The Emperor laid the request before his ministers in council．They all said，＂Let them first send the wedding presents，afterwards we will send the bride．＂The Emperor wrote a letter in reply：＂Shen horses come from the north－west ；those to be obtained in Wu－sun are good；they are known as T＇ien horses．The best obtain－ able are the Han（blood－sweating）horses of Ta－wan．Even more celebrated than these are the celebrated Wu－sun horses， called Western paragons 西 極，and the noted horses of Ta－wan，ealled the T＇ien horses，ete．When China first desired to establish settlements in the west，it founded the prineipality 郡 of Tsau－t＇siuen，to facilitate intercourse with the north－west．Since now China is sending missions to Parthia，Samarkand，Sarangia，and India，and the Emperor is desirous of having a supply of Wan horses，he sends this letter in the hopes that his wishes will be attended to．＂${ }^{1}$

As to the missions sent by China to foreign countries，the larger consisted of about one hundred individuals：few exceeded this number．The men had been trained under the Marquess of Po－wang，and afterwards had had increased experience，and had grown veterans in the service．The Chinese despatehed yearly missions，of which the larger consisted of ten or more companies；the smaller of five or six．Those to the more distant countries were absent eight or nine years；to the nearer，a year or so．

It was about this time that China effected the conquest of

[^27]Yuch，and made an impression on the south－western I in Sze－chuen，so that these requested permission to send envoys to do homage to the Emperor．At the same time the de－ partments were formed of Yik－chow 益 州，Yint－sui 越 腨， Yang－ho 㸼 牱，Sham－lai 沈 黎，and Wan－shan 汶 山．${ }^{1}$ The desire being to amalgamate with the cmpirc all the comntrics between it and Tochâria．

The same ycar Pch－Shi－ch＇ang 柏始昌，a man of Lu－ yut 吕 越，was sent with ten companies through the newly－ appointed departments to proceed to Tochâria．They werc stopped by the K＇wen－ming，who murdered the escort and plundered the presents，and put an end to the cxpedition． In consequence of this outrage，the Chinese raised three battalions from amongst the criminals of the empirc，and about 10,000 troops of Sze－chuen soldiery，and sent them under the command of the two generals Kwoh－c＇hang and Wei Kwang－tung to punish the $\mathrm{K}^{\prime}$ wen－ming for the outrage on the mission．They executed or imprisoned about 10,000 individuals，and an expedition was again despatched．The K＇wen－mings again plundered it，so that eventually attempts at intercourse were given up，and all communications with Tochâria passed along the northern route by way of Tsiu－ ts＇iuen．${ }^{3}$

As the number of the expeditions increased，a distaste for Chinese commodities arose among the outer states，and their goods were not valued．When the Marquess of Po－wang opened up the road to the outer world，they were highly esteemed．Succeeding missions，however，fell to wrangling． The Emperor wrote letters stating that foreign countries were strange and bizarre，and dangerous to be traversed，he therefore invited volunteers．He found that he had to give up the more distant expeditions，as none were found to take

[^28]a pleasure in travelling. His words were heard with indifference; he asked for officers from among the people, but none presented themselves. He made provision for numbers of men, and despatched them along the road, but they returned; they would not be restrained from robbing and plundering the goods, and the missions proved an utter failure.

The Emperor still persevered; he punished the greater delinquents; he was angry and ordered them to repay.

When he again sought for envoys, he did his best to select good men-not poor, nor given to breaking the laws; but the officials suddenly, and without permission, commenced again to shirk having anything to say to foreign affairs. They said that the majority looked upon them with indifference, and but few favoured these expeditions. Idle reports without foundation were circulated, and much unpleasantness ensued. The envoys sent were all the sons of poor men ; the officials provided private stores of goods, and with a view to private pelf procured them of the trashiest description. The foreigners in consequence grew suspicious of the Chinese caravans, the more especially as the words of the leaders could not be depended on. Thinking that the Chinese forees were at too great a distance ever to get at them, they stopped supplies of food and goods in order to distress the expeditions. The caravans were well-nigh starved, and ill feeling ran so high that blows were exchanged.

Low-lan and Ku-shi were but small countries, and the road lay through their territorics; they attacked and plundered the envoy Wang-k'wei to show their resentment. The Hiung-nû at the time wore very hostile, and thought an opportunity had arrived for striking a blow at these missions to the west; they sent envoys all round to remonstrate at the danger to foreign interests; they all had citics and towns, and their soldiers, though not strong, might strike a blow. The Emperor thereupon sent the Marquess of Piao to punish the Hiung-nû; he gave him command of the eavalry of the allied states, and about 10,000 infantry. The Marquess
in due eourse arrived at the (ITingg) Nû (?) River, and determined to attaek the enemy ; but the latter had retired.

The next year he attacked Ku-shi; and the Po-nû with 700 of his light cavalry having arrived, he eaptured the Kiug of Low-lan. Having reduced Ku-shi to terms, he disposed his troops so as to overawe Wu -sun and Ta-wan, and returned. Po-nû was made Marquess of Chuk-ye (в.c. 10S).

Wang-k'wei was frequently employed as an envoy, and what he did with reference to the difficulty at Low-lan was reported to the Emperor. The Emperor aecordingly having raised an army, plaeed Wang-k'wei in command, with orders to assist Po-nû, and invested him as Marquess of Ho. At this time Tsiu-ts'iuen extended from Ting-chang as far as the Yuh-men.

Wu-sun having sent a thousand horses as a betrothal gift, the Emperor sent Kiang-tu, a princess of the Imperial house, as a bride to Wu-sun. K'wen-mo, King of Wu-sun, made her right foo-jen. The Hiung-nû having also sent a lady to marry K'wen-mo, he made her left foo-jen. K'wen-mo being old, he ordered his grandson, Sham-t'su, to marry the prineesses.

Wu-sun was rieh in horses; rieh men had as many as 4000 or 5000 . When the first Chinese envoy arrived in Parthia, the King ${ }^{1}$ despatehed a general with 20,000 horse to meet him on the eastern frontier, from whieh to the capital was about 1000 li . On the way they passed some ten eities. The inhabitants were all of the same race and very numerous. On the return of the mission, he sent enroys with it, that they might see the extent and power of China. He sent with them, as presents to the Emperor, eggs of the great bird of the country, and a curiously deformed man from Samarkand. ${ }^{2}$

[^29]Adjoining Wan，on the west，were the small states of Hwan－ts＇im 驩 潛 ${ }^{1}$ and Ta－yik 大 笽．To the east of Wan were Ku－shi，Yu－mi，and Su－hiai 䧰 茢．All complied with the desires of the Chinese envoys，and sent tribute to the Emperor．The Emperor was much pleased，and took the opportunity of sending an expedition to explore the sources of the Ho（Yellow River）．The Ho rises in Khoten ；the mountains about its source produce large quantities of jade， whence it is conveyed to China．The Emperor examined the ancient charts and books，and learnt that the name of the mountains in which the Ho has its rise is the K＇wen－lun芘 緰（i．e．mountains of Gandhâra；see note on p．82）．

About this time the Emperor was in the habit of making pleasure excursions by sea，when he was accompanied by all the foreign visitors at court，and great numbers of people took part in them．Gifts and largesses were bestowed on them，and a liberal store of provisions，so that they might see how rich and liberal was China．There were every means of enjoyment afforded，plays and sleight of hand tricks；numbers collected to see them，and those who went were rewarded．Wine was there in lakes，flesh as if forests． The Emperor gave orders to show the foreign visitors over the imperial granarics and treasuries，where all manner of things were piled up，so that they might have some idea of the great resources of the cmpire．They were cspecially struck at the mechanisin by which the plays and other repre－ sentations were produced，and their astonishment was kept continually on the stretch．

At this time caravans regularly passed and re－passed between China and the countries lying to the north－west， and even from places far to the west of Wan，from Kiao－t＇sze

[^30]昹 恣 and An－jan 晏 然，but they had not yet estab－ lished binding rules with respect to the treatinent of envoys． From Wu－sum they went westwards as far as Parthia，and approached the Hiung－nu．

When the Hiung－nu had conquered the Yueh－ti，they had sent envoys bearing a letter from the Shen－yu；the neigh－ bouring countries had passed them on，and had supplicd them with provisions，not daring to detain or incommode them．On the arrival of the Chinese caravans，unless they were prepared with presents and rich stuffs，they could not obtain food，nor could they purchase beasts of burden or horses．These people concluded that as China was a long way off and was rieh，they could compel the caravans to purchase what they needed at any price they wished．They， moreover，feared the Hiung－nû more than they did the Chinese envoys．

In all parts of Wan and the adjacent countries the people used grape wine．Rich men stored as much as 10,000 shih in their cellars．They did not value it till it was at least ten years old．They loved their wine as their horses loved lucerne 苴 宿．The envors having brought home speci－ mens of both，the Emperor introduced the culture of the vine and of lucerne in the fertile districts of the empirc．${ }^{2}$

T＇ien horses were now abundant．From foreign nations

[^31]envoys came in numbers，and were distributed amongst the royal residency．The cultivation of grapes and lucerne succeeded to their best hopes．

From Ta－wan westerly，as far as Parthia，although the languages spoken differed slightly，they yet had a general resemblance（大 同 﨏）and were mutually intelligible．The men had all deep blue eyes（深狼）and large beards and whiskers．They were astute traders，and would wrangle over a farthing．The held their women in high estimation， and the husband commonly took his wife＇s advice before coming to a decision．Their country produced everything except silk and varnish 漆．${ }^{1}$ They did not understand the art of casting cash 錢 or metal vessels（some copies for 錢 read 鐵，i．e．they did not understand the art of casting iron vessels，a more probable supposition，as Sze－ma previously，see p．81，speaks of the Parthians using silver coins）．They induced some of the attendants attached to the Chinese mission to desert，for the purpose of teaching them the art of casting weapons and vessels．They obtained from China surreptitiously gold and silver for the purpose of making various utensils．They were not in the habit of using silk fabrics 幣．When the Chinese envoys were going away， many went with them；of these a few went in an inferior capacity，but the greater number were introduced to the Emperor．

It was reported that there were concealed in Urhechi式師城 a number of shen horses，which the people were not willing to hand over to the Chinese envoys．The Emperor wished much to have a stock of Wan horses，and was pleased at the information．He sent officers skilled in the manage－ ment of carriages，with a thousand pieces of gold and a golden horse，to ask of the King of Wan the shen horses at Urh－chi．${ }^{2}$

[^32]Wan had had enough of Chinese commoditics，and readily entered into a plot．China，they said to themselves，is far distant，and between us lies the Salt Lake（Lob），subject to sudden disturbances．Should they go to the north，they will encounter the Hu （Turkish）robbers；if to the south，there is a dearth of water and fodder．Whichever road they take， there is an absence of towns and a scarcity of provisions． The Chinese envoys travel in companies of a hundred men or so；if they try to cross without provisions，they will dic before they are half over．It would be easy to stop a large army without any effort on our part．As for the Urh－chi horscs，the people of Wan value them and do not wish to hand them over to the Chinese envors．The envoys were annoyed at their opprobrious words；they broke up the golden horse and took their dcparture．

The chicf men of the city werc rexed at their departure，and bethought themselves the Chinese enroys will think but little of us，now that we have let them go；let us suggest to our eastern neighbours in Yuk－ch＇eng 郁 城 to intercept and murder them and plunder their groods．

The Emperor was greatly cnraged at hearing this，and consulted privately respecting the mission with Ting Han－ tang．The latter told him that the military resources of Wan were weak，and that though the Chinese troops did not exceed 3000 men，still they were brave and well trained in the use of the bow，and could at any time capture and destroy Wan．The Emperor had himself had experience of his troops，when he despatched the Marquess of Chuk－ye to Low－ lan，the result of which was the capture of the King by the T00 cavalry first arrived．The Emperor expressed his assent to Ting＇s suggestion，and as he had a fancy for the Marquess on account of his favourite concubine，the lady Li，he ap－ pointed Li Kwang－li 李 廣 利 to command the force against

[^33]Urh－shi．Six thousand cavalry were despatched from Sze－ chuen，and from the provinces they enlisted about 10,000 youths for the expedition against Wan ． Li was given a fixed period to proceed to Urh－shi and capture the shen horses，and in consequence got the name of the Urh－shi general．

Li lost no time in making his forces effective，and for that purpose selected the Marquess of Ho and Wang－kwei to guide the army，and Li－chi his lieutenant to look after the affairs of the force．This was in the first year of the term T＇ai－ch＇o （37th year of Wu－ti，b．c．104）．At the same time there was a great plague of locusts in Kwan－tung，their ravages ex－ tending westward as far as Tun－hwang．

The Urh－shi general advanced with his troops to the west of Lake Lob；as he went along the road the small states were suspicious，and closed the gates of their cities，nor would they supply him with provisions．If he attacked them， he might not be successful ；if he were successful，he could get a supply of provisions；should he not succeed in reduc－ ing them in a few days，what he had would be exhausted． Under the circumstances，he turned north to Yuk－ch＇eng．${ }^{1}$ The soldicrs who were with him scarcely exceeded 1000 men， all exhausted by hunger．They attacked Yûk－ch＇eng，but met with a scvere defeat，losing in killed and wounded the greater portion of the force．

The Urh－shi gencral consulted with Li－ch＇c and Chao Shi－ching respecting the condition of affairs．They had got as far as Yûk－ch＇eng，but could not take it ；still worse would be thcir condition if they went on to the royal city（Urh－shi）． They determined accordingly to retire to Tun－hwang．The expedition had occupied two ycars，and on its arrival at the fronticr，not more than one or two tenths of those who had set out returned．

The general scit a despatch to the Emperor，stating that the distance to be traversed was great，and they had suffered much from hunger：The soldiers had died of hunger，not in battle，and were too few in number to reach Wan．As for

[^34]the troops, they were much exhausted ; still, if a larger force were raised, they were willing to start again.

On hearing this, the Emperor was much enraged, and sent a messenger to intercept the army at Yuli-men, and inquire how it was that the army had dared to re-enter China without permission. Fearing the consequences, the Urh-shi general detained his troops at Tun-hwang.

In the summer of the same year the Chinese lost some 20,000 men of Tsok-yi's army at the hands of the Hiung-nut. ${ }^{1}$ The chief offieers of the state were unanimous in wishing to give up the war against Wan, and coneentrating their forces in an attaek on the Turks. The Emperor was however determined on punishing Wan. Wan, he represented, was but a small eountry; if they failed to reduce it, the Tochâri would think but lightly of China, and the supply of shen horses would cease. Wu-sun and Lun-t'ow would find it easy to annoy the Chinese cararans, and they would become the laughing-stock of foreign nations.

It was resolved to punish Wan at any cost. Prisoners in jail, and ruffians of every description were impressed, and the younger culprits were sent to join the border cavalry. In little more than a year there marched out of Tun-hwang a force of $60,000 \mathrm{men}$, not ineluding eamp followers, accompanied by 100,000 cattle and upwards of 30,000 horses, besides some 10,000 mules, asses, and eamels, well supplied with fodder. The troops were well provided with cross-bows, and the whole empire was moved to provide means for the attaek on Wan. More than fifty generals were appointed to the force.

The royal city of Wan had no wells within the walls, and was altogether dependent on streams outside the city for its supply of water. The Chinese took with them men well

[^35]skilled in waterworks to divert the streams，and so deprive the inhabitants of water．In addition to these preparations， 180,000 men were sent to the north of Tsiu－t＇siuen and Chang－yih，and depôts of provisions were established for the protection of Tsiu－t＇siuen．From China they despatched the seven classes of criminals to act as provision－carriers to the Urh－shi＇s army；men skilled in the management of chariots were sent to join it at Tun－hwang ；and two cavalry officers，well skilled in the management of horses，were attached as instructors in horsemanship to take back the shen horscs after the capture of Wan．

When all was ready，the Urh－shi general again set out with a numerous army．As they advanced through the smaller states they were everywhere well received and pro－ vided with supplies．On their arrival at Lûn－t＇ow，${ }^{1}$ how－ ever，the people would not submit；the army attacked the place，and in a few days destroyed it．From thence，west－ ward，as far as the chief town of Wan，the road was level．

On its arrival at Wan，the Chinese force numbered some 30,000 men．The Wan troops marched out to attack it，but were defeated，and forced to retire within the city for shelter． The Urh－shi＇s troops had wished to go and attack Yuh－ ch＇eng；he was apprehensive of the consequences of inter－ rupting their march，and only succeeded in getting them to Wan by a ruse．

On their arrival，they set to divert the watcrcourses，so that the inhabitants shut up lost heart．The siege was pressed for forty days，when the outer city was stormed． The chief men and the officers in command were much harassed at the loss，and the pcople in great trepidation retired within the inner city，where the chief mon had a consultation．They represented that the reason of the Chincse attack on the city was that King Mû－kwa 贯客 had refused to give up the shen horses，and（had instigated）

[^36]the murder of the envoys．If therefore they killed the king， and sent out the shen horses，the Chinese troops could scarcely refuse to accept their submission．If，on tho other hand， they did not come to terms，the contest would be carried on to the death．

Before evening the principal inhabitants all expressed their assent；they killed their ling，Mû－kwa，took his head， and sent it with their chicf men to the Urh－shi general． They told him that if he would spare the lives and propertics of the citizens，they would send out as many of the shen horses as were required，and would supply the Chinese troops with provisions．If，on the other hand，he would not agree to their proposal，they would then kill the shen horses， and request the people of K＇ang－ku to come to their assistance．They then，with their own forces inside the city，and those of K＇ang－ku without，would be well able to meet the Chinesc in battle．

The Chinese generals consulted together as to what course to pursue．Mcanwhile the Prince 候 of K＇ang－ku had come to rcconnoitre the Chincse forces，but it being still in grood condition，he had not dared to enter the city．The Urh－shi general took counsel of Chao Shi－ch＇eng and Li－c＇hi． They learnt that within the city they had recently obtained the services of some men from T＇sin，who knew how to sink wells，while prorisions were still abundant．Come what might，they had cut off the head of the obnoxious Mû－kwa， and it had arrived in camp．If they did not agree to the terms proposed，they would have to take measures for their own defence，as the Prince of K＇ang－ku，as soon as the Chinese soldiers were exhausted，was ready to come to the assistance of Wan，in which case their army must be ex－ terminated．

The various generals accordingly agreed to accept the terms proposed，and a convention was entered into with Wan that the latter should send out the shen ${ }^{1}$ horses，which

[^37]the Chinese should have the right of selecting，and that they should fully provision the army．

The Chinese general took of the shen horses some ten individuals，besides of medium and inferior qualities about 10,000 horses and mares．They likerrise selected from among the grandees of Wan one who had in previous times enter－ tained in a friendly manner the Chinese envoys，by name Mui－t＇sai，${ }^{1}$ and set him up as King of Wan．

On their side the Chinese stipulated that they would withdraw the troops without entering the inner city，and would cease hostilities and lead them back to China．

As the army was numerous，and no provisions were to be had for so many along the road from Urh－shi to the districts immediately west of the Tun－hwang，the army was divided into several sections，which followed respectively the northern and southern routes under the leadership of Wang Shen－ sang．On account of（the proximity of）the districts of Hung－li 鳰 濾 and Wu－chûng 壷 充，${ }^{2}$ they marched in bodies of about 1000 men．On their arrival at Yuk－ch＇eng， they found the city closed，and the inhabitants unwilling to provide supplies．Wang Shen－sang went on some $200 l i$ in advance of the main army，with a body of light horse，in order to reconnoitrc．He made a requisition on the tomn for provisions，but was refused．The people in the town knew through their spies that the troops with Wang were but few； at daylight they sallicd out 3000 strong，and cut to pieces his cscort．A few only escaped to the Urh－shi general．The general ordered the troops under the command of Sau－suk and Kih to destroy Yuk－ch＇eng；the King fled to K＇ang－ku， whither he was pursued by Kih．The people of K＇ang－ku hearing that the Chinese had taken Wan，and had driven out the King of Yuk－ch＇eng，delivered him up to Kih．

Kih ordered four eavalry officers to take him bound to the

[^38]general-in-chief. The four consulted together. "This," they said, "is tho King of Yuk-ch'eng, who has inflicted so much loss on our troops. So long as he lives ho will be a source of trouble, let us kill him and finish the affair." They wished to kill him, but each feared to be the first to strike. The Shang-kwei cavalry officer, Chao's younger brother, was a young man; he drew his sword, killed him, and cut off his head. IIe was sent on by Kih to communicate the fact to the gencral-in-chief.

After the Urh-shi general had set out, the Emperor sent an enroy to Wu-sun, requesting it to assist him in the attack on Wan; Wu-sun, in response, sent 2000 cavalry. They were now placed in a dilemma, and did not wish to proceed, as the Urh-shi general had retired to the east. The smaller States through which the army passed, when they heard that China had conquered Wan, all sent the sons or younger brothers of their ruling chicfs, along with the army, to pay tribute to the Emperor and remain as hostages at the court.

Great merit was duc to the Urh-shi general for his success at Wan, and to the Kiun-ching Chao Shi-ching for his bravery in battle, as well as to Kih for the courage he displayed in entering K 'ang-ku, and on Li-ch'i for his wise counsels. The army entered the Yuh-men about 10,000 strong, with a thousand horses; the Urh-shi general bringing up the rear.

The army was now abundantly provisioned, and those who died in battle could not be many. The officers were, however, avaricious, and many of them did not care for their soldiers, who fell to plundering, and this caused some disturbance. The Emperor, as it had marched $10,000 \mathrm{li}$ to the capture of Wan, and had returned successful, took no further notice of the irregularity. He invested Kwang-li as Marquess of Hai-si, and the younger brother of Chao, the caralry officer who had killed the King of Yuk-ch'eng, he made Marquess of Sin-c'hi. The Kiun-ching Chao Shi-ch'eng was made Ta-foo of Kwang-luh, and the Shang-kwan-kih Siao-foo. Li-c'hi was made T'ai-show of Shang-tung, and
three of the other generals made high officers of the ninth grade.

To each of the Marquesses who had an income of 2000 shih 100 men were allotted, and a thousand were distributed amongst those with less than 1000 shih. In reward of their strenuous exertions, all were rewarded beyond their hopes, and fully contented were permitted to retire. 40,000 pieces of gold were distributed amongst the troops; those who had taken active part in the operations against Wan received four years' furlough.

After the victory at Wan, the Chinese general had set up Mui-t'sai as king, and immediately after departed. Scarcely a year had elapsed when the principal men of the city, finding that Mui-t'sai was nothing but a specious flatterer, sent an envoy to China asking permission to kill him. This being accorded, they put him to death, and raised to the vacant throne a brother of Mu-kwa, named Shen-fung (? Dar-bhar), and sent his son to China as a hostage. To preserve the good understanding an envoy was despatched in return with costly presents, and more than ten caravans were sent to the countries lying west of Wan to seek for articles of vertu.

In order to keep Wan under control, Fung-lan was appointed Tu-wei of Tun-hwang and T'siu-tsiuen. Westwards, as far as the Im-shui (Salt water, i.e. Lake Lob), rest-houses were established. At Lun-t'ow, a hundred agricultural officers were appointed for the purpose of encouraging the cultivation of millet and corn to supply the caravans on their way to or from foreigu countries.

Index of Names of Locifitifes Mentioned in the pre－ ceding Paper．

| An－jen ．．．晏然 | Ariana． |
| :---: | :---: |
| An－sik ．．．安 息 | Parthia． |
| Ho－si ．．．．河 西 | Shensi，etc． |
|  | See Wu－chung． |
| Hwan－t＇sim．．驊蘊 | Kharism． |
| Iwan－ya ．．．渾 邪 | In present province of Kansul． |
| Im－shui．．．．監 水 | Lake Lob． |
| Im－t＇sai or Im－奄 然 <br> t＇sai－li－kan．奄 蔡 黎 軒 | \} Samarkand. |
| Joh（Yok）shui 弱水 | Lake of Hamun． |
| Kan－mi，secalso |  |
| Iu－mi ．．．扞 穼 | A kingdom S．E．of Lake Lob． |
| Kang－ku ．．．康 居 | Riang－kul． |
| Ki－lien－shan ．䄮 連 山 | T＇ien－shan（part）． |
| Kiao－t＇sze．．．駘 恣 | Arachosia． |
| Kien－wei ．．犍 篇 | A town in Sze－chuen． |
| Kiung－pak ．．工拺 | Do． |
| Kim－ch＇eng．．金 成 | A town in Kansuh． |
| Ku－sze ．．．．姑 師 | A kingdom near Lake Lob． |
| K＇wen－lûn ．．芘 嵛 | Mountains of Gandhâra． |
| Kwai－shui．．．篤 水 | River Oxus． |
| K＇wen－mings．昆 明 | A tribe in Sze－chuen． |
| Lam－shi－ch＇eng 監市城 | Capital of Bactria． |
| Lu－yût ．．．呂 越 |  |
| Lûu－t＇ow ．．．俞 頭 | A place S．W．of Lake Lob． |
| Low－làn．．．．樓 蘭 | A kingdom S．E．of Lake Lob． |
| Mang ．．．．．拢 | A locality in Sze－chuen． |
| Nam－shan．．．南 山 | A locality in Kansuh． |
| Sham－lai ．．．沈黎 | See Yang－ho． |
| Shen－tuh ．．．身 毒 | Scinde． |
| Si－ping ．．．西 並 | A place in Kansuh． |
| Si－wang－mu ．西 王 里 | A fabulous being． |
| Su－hiai ．．．䧰 薤 | Asmall statelying E．of Yarkand． |
| Sui ．．．．．．㟨 | Now Li－kiang－fu in Yunnan． |
| Ta－hia．．．．大 夏 | Tochâristan． |


| Ta－yik ．．．大 益 | Derbices． |
| :---: | :---: |
| Tai－tsoks ．．．氏 篗 | A tribe in Yunnan． |
| T＇iao－chi ．．．條 枝 | Sarangia． |
| T＇în－yût ．．．俱 越 | Sthâneswara or N．E．India． |
| Tsiu－ts＇iuen ．．酒 泉 | A district in Kansuh． |
| Tu－kwai－shui．都䈧水 | River Surkhab． |
| T＇u ．．．．．徙 | A locality in Sze－chuen． |
| Urh－sze－ch＇eng 式 師 成 | Yarkand． |
| Wan or ．．．．宛 | ）The kingdom lying E．of the |
| Ta－wan ．．．大 宛 | \} Pamîr, Yarkand. |
| Wan－shan ．．汶 山 | A district in Sze－chuen． |
| Wû－chung ．．壱 充 | A district near Yûk－cheng． |
| Wû－suns ．．．鳥 孫 | The Asiani． |
| Yang－ho ．．．牲坷 | A newly－founded district in Sze－chuen． |
| Yen ．．．．．拓 | A place on the borders of Sze－ chuen． |
| Yik－chow．．．益 州 | See Yang－ho． |
| Yû－mi．．．．扞穼 | Themore correct form of Kanmi． |
| Yû－t＇ien ．．．于 真 | Khoten． |
| Yueh－ti．．．．月 比 | Ephthalîtr． |
| Yuk－ch＇eng．．成 郁 | A city of Turkestan． |
| Yût－sui ．．．．越 薏 | See Yang－ho． |

Table A.



Table B.


It Egrytian is lumd all the series of thesc aurilinries, list pers. an-a, fts-a, an-a meva; 2nd pers. au-k, enok, an-k, etc. Here are given only the forms parallel with the Semitic or ciptic forms.


Art. IX.-Suggestions on the Formation of the Semitic Tenses. A Comparative and Critical Studly. By G. Bertin, M.R.A.S.

Is no Semitic tongue there seems not to be more than two primitive tenses, not having, however, in each dialect the same force. The form expressing the present in Hebrew is used for the subjunctive in Ethiopian, the perfect in Assyrian, etc. As for comparative purposes a common name is required for each form, we will take those adopted by the late Vicomte de Rougé in his Egyptian Grammar: Aorist-Past to denote the tense which appears to be formed by suffixes, as "חבּ quabal-ti, and Aorist-Present for that which appears to be formed by prefixes, as

It may be added that these two tenses had primitively connected with them no fixed idea of time, like the various Egyptian verbal forms, ${ }^{1}$ but were localized only in the course of time, as will be seen in the following study.

## I. Aorist-Past.

This tense is formed by simply adding to the verbal root the personal pronouns more or less abbreviated, and these prrsonal suffixes are often the same as the possessive: פָּ paqad-n"̄ is "we risited " or " our risiting."

The primitive meaning, expressing the past, attached to this aorist, is by the formation very rational, for "our risiting" is "the visiting of us," or "done by us," the pronominal suffix is therefore really the regimen of the verbal noun, and consequently the same as the possessive suffix; " done by us."

[^39]This formation is the one noticed in old Egyptian. ${ }^{1}$
In Semitic tongues the verb is, as in Egyptian, placed first in the sentence. The third person is merely the root or theme (also as in Egyptian), which is quite rational, for being followed by the subject, the pronoun is not required to determine the person.

If we consider the third person of a verb to be a noun, its feminine must be formed according to the rule used for nouns; that is exactly what is found.


In Hebrew the $t$, characteristic of the feminine, is, as it is also in the nouns, weakened into $h$, so we have $\zeta_{1-p_{\tau}} q$ qabal, fem.


The formation agrees therefore exactly.
In the plural the parallel is the same. The third person of the masculine plural is qabl-u in Hebrew, Syriac, Chaldee, Samaritan and Ethiopian; ${ }^{2}$ and ${ }^{2}$ تَّبُوُو qablūå in Arabic, where the silent alif is only added to mark the length of the last vowel.

Here we have the theme with the mark of the plural $u$ (Egyptian ${ }_{1}{ }_{1}$ ) for the masculine. The feminine ought to be au or $u a$ (Egyptian $\frac{\frac{d}{11}}{1}$ ) and by assimilation $\bar{a}$, but as it often happens the distinction of gender in the plural ceased at an early time to be rigorously noticed and the masculine form was exclusively used for both genders. ${ }^{3}$ Ethiopian is the only dialect in which the characteristic $\bar{a}$ has been retained, IIIn quabāa, as in Chaldce.

The formation of the plural by adding $\bar{u}$ has nearly disappeared in the nouns; some examples remain in Assyrian,

[^40]but it has left many traces in all the other dialects: as, for instance, the Arabic regular plural $\because i n$, and the plural üt, found in Assyrian, Hebrew, Arabic, cte. A trace of the feminine plural in $\bar{a}$ is also found in the plural $\bar{u} t$.

There seem to have been two different means by which the plural could be formed: 1st, $\bar{u}$ for the masculine and $\bar{a}$ (for uia) for the feminine, and 2 nd, $n$, used for both genders. This $n$, as marking the plural, appears in the pronouns. These two characteristies have been often superadded, as is seen in the Arabic plural $\mathcal{G}$ un, and, through phonetic changes, in Assyrian YY -ani, Hebrew $\mathbf{I M}^{Y}$-im, Chaldee ${ }^{\prime}{ }^{\prime}$ in, etc. This double plural has been better preserved in the feminine;
 well as مh qbati.

For the second and first persons of the Aorist-Past etymologists appear to have been misled by the fact that the pronoun of the second person is atta in Hebrew, and EYYYYat-ta in Assyrian; from this they have assumed that $t a$ was the characteristic of the second person, and have derived from it the second person of the
 the feminine being derived also from the feminine pronoun of the second person, same course, the first person in ${ }^{\circ} t u$ in Arabic, and - $t i$ in Hebrew, has been derived from the demonstrative pronoun 'गֵּ or MN . This etymology has been generally accepted, though we have in Ethiopian : first person TПヘగ-
 qaballii, which appear to be the primitive forms. ${ }^{1}$

The suffix kiu for the first person has been preserved in the Assyrian YY~Y anaku, Hebrew ' for "I." It appears in the so-called permansive of the

[^41]Assyrian sarra-ku"I am king." The suffixes of the second person mase. ka, fem. ki, have been retained in all the Semitie dialeets as possessive suffixes of the second person. We have, therefore, an example here of the common change of $k$ into $t$, and it ean only be a matter of surprise that so simple an explanation has not been given before. ${ }^{1}$

The plural of the second person is regularly formed by the second suffix of the plural $n$ or $m$ added to the singular, and is an exaet parallel to the possessive suffixes where the $k$ has not been softened into $t$.

The first person plural is formed with the pronominal suffix, which is exactly the same as the possessive suffix of the first person plural -n $\bar{u}$ or $-n a$; sometimes a double plural is found, and the second $n$ is wrongly called paragogie.

In the aceompanying table (A), I have added the Egyptian and the Coptie, to show the striking parallelism.

Note on the second person.-It has been suggested to me by a philologist that the primitive form of the suffix of the second person may have been $k-t$, with a collateral softening, thus : k-t $\left\{\begin{array}{l}h-t-\ldots t \\ k-h-\mathrm{k} \ldots\end{array}\right.$ In one case the $k$ first becoming $h$, and then being dropped, and in the other the $t$ becoming $h$, and also being dropped. But if this assumed form ever existed, there are no traces of it to be found in any Semitie or Hamitic dialeet. Besides, though the ehange of $l$ into $t$ may appear rather violent, it has been done in historical times. In Amharie our very suffix lii became $\delta$.

In Egyptian the ehange is aetually found for the same suffix. In few examples of the later period of ta appears as the suffix of the seeond person.

[^42]Note on the Assyrian Permansice．－I have purposely a voided treating of the so－called Assyrian permansive，acknowledged by some and rejeeted by others．That some forms are found in the texts，where the pronominal suffixes are added to the verbal root or noun，eannot be denied，but these examples are very uneommon．In all the tablets now unearthed，not more than one hundred examples can be found，and it seems to me rather rash to reconstruct the whole of the paradigm of all the voices from such comparatively few examples．

What has been ealled the first person of the permansive is the only one which seems to have been in common use：〈 But in such instances it is straining the meaning of the word to eall it a verbal form，for we have indeed no verb surara（to be king）nor zikara（to be man）．These words scem to be formed by analogy with anaku＂it is I，＂i．e．＂I，＂ often written $Y$ ，where the primitive formation appears clearly．When Assurnasirpal says：${ }^{1}$ 気佥佥 saraku， he means＂the king，it is I，＂bilak＂，＂the lord， it is I，＂ete．Most of the forms of the first person found are of this kind．The other persons are still more uncommon， and mostly used in the texts translated from the Akkadian in the reign of Assurbanipal，and therefore of a later date． Some evident mistakes in these transcriptions seem to indi－ eate that the scribes were often not Assyrians（that is， Ninevites or Babylonians），but Aramæans or Phœnicians，or even non－Semities．We have many proofs that，as artists， earvers on ivory，stone，ete．，the prisoners taken in war were employed by the conquerors，and it seems rational to suppose that some were also，as was the custom in Rome， employed as seribes．The form YY Yy tarsat ${ }^{2}$（she places）， 3 p．f．sing．of the Perm．，is most probably the Aramæan ภiาת transliterated into Assyrian，and there are other examples of Aramaic forms being introduced into Assyrian．

## II. Aorist-Present.

As already mentioned, this name is used for convenience' sake, though the tense in Assyrian nearly always has the force of the perfect.

The clear derivation of the Aorist-Past has led grammarians to look into the pronouns for the origin of the prefixes of this tense. According to their theory the pronominal roots should have been cut in two, one part being prefixed and the other suffixed. I do not think this explanation will bear a serious and careful analysis; the process required in such a case is too violent and too artificial, moreover, to have been applied by uncultured people, such as the ProtoSemites. Besides, if the second person feminine, Assyrian -YYY-ZY - $=Y$ ta-aqbati, ? ? Pp: tiqbeli, Ethiopian TP $\cap$. teqabeli, giving the form $t a-i, t i-i$, and $t e-i$, is derived from $a n-t i$, such derivation does not explain the presence of the $n$ in Arabic تَبَّبُلْ taqbutina and Syriac ค ${\underset{\sim}{x}}^{1} \sum_{n}$ teqblin, unless we suppose for the pronoun the form antin, which has never been found in any dialect nor has ever been suggested.

If we look to the paradigm of our tense, we see that the suffixes have in great part disappeared, and were only retained where they were required to distinguish one person from another; we find $-i$ to the second person feminine, to distinguish it from the masculine, in Syriac we have -inn, to establish a distinction with the third person feminine uSô this person is confounded in other dialects with the second masculine.

Arabic has $-\check{u}$ in all the forms of the singular, the second feminine excepted ; the final $-n$ re-appears in the plural of the second and third persons in Arabic, Syriac and Samaritan. No doubt such a termination existed also in Hebrew; but when this letter was used as a suffix to the singular or plural, it was called by grammarians paragogic. As these suffixed letters appear in all the persons and numbers, they must
have a common origin. I believe we have in them a remnant of the forms prescrsed complete in the old Assyrian verbal form : -ımma, -imma, - ctmma, which have the same origin as the Assyrian mimmation, also found in Sabaan, and the Arabic nunation, which has becn retained for a much longer period in the nouns.

In an Assyrian bilingual inscription ${ }^{1}$ a very curious form is found :

$$
\begin{aligned}
& -Y\langle Y E Y\langle\langle\rightarrow Y \text { ikilman-anni. } \\
& =Y Y Y \pm\langle\langle\rightarrow Y \text { useman-anni. } \\
& =\angle Y-\langle<-Y \text { isiman-anni. }
\end{aligned}
$$

perhaps a remnant of the old minmation already decared, as in Aramean and Arabic into a nunation. ${ }^{2}$

Admitting, therefore, that the suffixes have nothing to do with the prefixes, these must be treated of by themselves.

If the prefixes had the same origin as the suffixes of the Aorist-Past, we ought to have in Ethiopian this series: 1st pers. ku- ; 2nd masc. kit-, fem. -ki ; 3rd masc. a-, fem. ata- or at-, because the $k$ could not hare been preserved intact at the end of the theme in the Aorist-Past and at the same time hare decayed into $t$ at the beginning in the dorist-Present.

In Hebren we should have: ti-, ta-, te-, ha- or lue- and at-; in Arabic: tu-, ta-, ti-, $a-$, at-, etc. But this process being rather contrary to the fact, it seems more rational to examine the prefixes in themselres and see if they may not have another origin.

We have three prefixes: 1st. a $(u, i)$ for the 1 st pers. sing. in all the dialects; and in Asșrian, Hebrew, Arabic, Samaritan and Ethiopian, for the 3rd masc. sing. and plural ; and in Assrrian, Samaritan, Aramæan and Ethiopian for the 3rd fem. plur.

2nd. $n$ for the lst pers. plur. ; and in Syriac also for the 3 rd masc. sing. and 3rd plur., both genders. ${ }^{3}$

3rd. $t$ for the 2 nd pers. sing. and plur. and the 3rd fem. sing., and in Hebrew also for the 3rd fem. plur.

[^43]
## Prefix $A$.

If there were any doubt as to the common origin of the prefixes $a, i$ and $u$, the Assyrian would clear it up, for we find $a, i$ or $e$ and $u$ all used in many instances for the first and third person.

The Semites nerer, it would seem, conceired a rowel-sound without an aspirate: $a, i, u$ stands for ${ }^{\circ} a$, ${ }^{\prime} i,{ }^{\prime} u$. The rocalisation is, in composition, governed by the harmony, and the rowels appear more clearly in Assyrian on account of the system of writing.

Though a root so delicate as a simple aspirate might be expected to disappear, yet one has been remarkably preserred, in a clear form, in the Syriac verb fooi loo "to be," which has been cast in the triliteral mould. In Hebrew the same root appears with another vocalisation, הָ " וֹה layah; in Arabic it is found in "what?" interrogative, i.e. "is it?"

This primitire aspirated root is largely used in formation, but it little alters the primitive meaning of the word to which it is prefixed. In Hebrew we have as prefixes $\mathbb{\aleph}, 9$ and $\Pi$, through the influence of the rocalisation; the same happens in Assyrian, Syrian, Arabic, etc. ${ }^{1}$

In some words the prefixed letter simply intensifies the primitive meaning. For this reason it is used to form the impcrative and the rocatire.

Sometimes the rerbal meaning of the prefix bas been retained, and as such it is added to substantires in order to form adjectires.


## Prefix N.

If the prefix $n$ had only appeared in the first person of the plural, we might believe that it werc really the last remnant of the personal pronoun, but it is found used in Syriac to form the third person of both genders.

[^44]This form with the prefixed $n$ has puzzled all grammarians; some have supposed that the nun was a mistake of the seribe for a yort; but when we remember that Syriac was a spoken dialeet, when the manuseripts were written, it seems impossible to believe that such a gross mistake eould have been made; others have derived the prefix from Lैor hond, what is improbable, although less impossible, as that word is only the lengthened form of the pronoun oor hii. The prefixed $n u n$ in the third person mmst have another origin, and seems to be eonnected with the mun of the first person of the plural.

Does it then exist like the prefix $h$ or ${ }^{\prime}$ (the aspirate) does as an independent word in Semitic tongues?

We find it indeed most extensively used in all of them.
The particle $\dot{4}^{3}$ an has many uses in Arabie, the most common is to serve as a simple expletive before the subject or before nouns in certain conditions. In Hebrew jN an is an interrogative, " where," "whither," "whenee," also "how long," ctc., having really no regard to time or movement.

We find this prefix used in all the dialcets as a mere support to the pronouns: $Y Y$ —ry an-aku,

Thesc uses and meanings point to the foree of a primitive substantive verb an "to be." ${ }^{1}$

The nominal formation shows this value most clearly, as the nouns formed with the suffix $n$ have generally a passive meaning.
 $n-u s a b$, "inhabited."
 has been produced," i.e. "the product" $\quad \underset{Y}{-r Y} \mathcal{Y}$ na-annaru, from *yyy nüru (fire) "what is inflamed," i.e. "bright."

We find the same formation in Arabic, Syriac, and other dialects.

[^45]
## Prefix T.

The primitive value of the prefix $t$ is even still elearer. We find it wonderfully well preserved in Syriac under the triliteral form $\Delta_{\uparrow}^{\top}$ ait, "to be," wrongly connected with the Hebrew ש゙N. The verb, instead of taking the pronominal verbal suffixes, takes the pronominal possessive suffixes; therefore, when there is $\boldsymbol{\square} \boldsymbol{\Lambda}\}$ aiti, it clearly means " $m y$ being," $y^{2}\left\lfloor\Lambda^{x}\right.$ iituk, "thy being," ete.; the meaning is also well preserved in the expression $\Delta \Lambda S$ lait $l i$ " (it) is to me," i.e. "I have." It is to be noticed that the olaf is dropped, not being part of the root.

In Hebrew תヘ ät or "ת atti is the same root, used as a kind of demonstrative, which has also the foree of an expletive, as shown by the first chapter of Genesis in the sentence :ץרָ maim w-̈̈t ha-ares, which must be translated "God created what is the sky and what is the earth;" in this instance it has preserved the primitive meaning of the substantive verb.

In Sabæan, Minæan dialect, the same root is used as a demonstrative pronoun, $X \oplus \Psi$ hut.

The nominal formation with the prefix $t$ becomes clear if it is considered to be a fragment of a verb "to be."

 going along," i.e. "procession," from הָּ to walk." ${ }^{1}$

 mankind," properly " what is," or " composes mankind."

A great many examples might be given of the compounds with this prefix and the two others in all the Semitic dialeets, but those few are sufficient to illustrate the formation.

[^46]The rational conclusion of this survey is, that the suffixes of the Aorist-Present are not abbreviated forms of the pronouns, but auxiliary verbs prefixed to the verbal root or theme. The only objection is, why are particular forms used for certain persons?

If now we turn to the syntax, it will be seen that the distinction of gender, number, and person is far from being always retained.

In Assyrian, as already shown, the first person plural is the only one clcarly distinct from the singular, but the distinction is illusory when the speaker uses "we" for " l ," or "they" for " we," etc., as is often the case. The masculine and feminine are so often used one for the other, that Dr. Oppert said: "One might doubt of the existence of the feminine form."

I must also mention that in a great many texts the writer passes from the first to the third, or from the second to the third, person without any break in the sentence, and we are obliged in the translation either to supply the change of expression or keep to the person mentioned at the beginning of the sentence.

It has already been noticed that the suffixes of the AoristPresent are only the remnants of the primitive mimmation and nunation. By mcans of the so-called paragogic letters, in Hebrew, for example, the suffixes are often made the same for all persons and numbers. We therefore have identical forms, thus : for the 2nd masc. and fem. sing. and plur. and 3rd fem. sing. in Assyrian, Syriac, Arabic, and Ethiopian, and also for the 3rd fem. plur. for Hebrew. In Assyrian the 1 st sing. and 3rd mase. sing. and 3rd masc. and fem. plural are often the same in writing; so also the 3rd sing. and plur. In Syriae the 3rd mase. sing., the 1st and 3rd masc. and fem. plur. are the same. So when the 3rd person fem. sing. is used in Assyrian for the masc., as it often happens, we might as well say that it is the 2nd person; when the 3rd person masc. sing. is used for the 3rd fem. in Syriac, we might as well say it is the 1 st or 3 rd plur. ; and so on.

We find, moreover, a few cases in Hebrew, Syriac, and

Arabic of forms used for the wrong persons, which have been considered as the errors of scribes; I would rather believe that in many instances the scribes have "corrected" the texts, to make them agree with their conception of the grammar. So the linea occultans seems to me to have often been placed under letters added by the scribes to explain their own etymology and derivations of the words, but which had no more reason than the change made by the Latin etymologists in the word orum into aurum. This is in many instances also the case for the Massoretic points.

In Hebrew, Aramæan, and Samaritan, as in Assyrian, the genders, numbers, and persons seem to be indiscriminately used, often the context only shows what we have to translatc.

The Arabs, though they have, on account of the geographical position and turn of mind of the race, preserved the purest forms, have most elaborate grammar. Their grammarians have drawn numerous and complicated rules, with as many exceptions, to explain the irregular uses of persons and numbers of the verb. So we are told that the verb placed before a feminine subject is used in the masculine form, and that certain verbs even take always the masculine form with a feminine noun. The usc of number is as irregular as that of gender; the plural nouns take masculine or feminine singular verbal forms. Even for the dual, the rule is to use the verb in the singular with a dual subject. A verb with several subjects is often in the singular. Frequently, also, the verb agrees with its complement.

The only conclusion and the only explanation of all these anomalies is to admit that at the carliest period of Semitic grammar the various forms of the prefixed tense were eommon to all genders and numbers, and that the prefixes themselves were nothing more than auxiliary or substantive verbs.

The proof that the verb did not primitively contain any mark of person and number is also found in many idiomatic sentenees, where the partieiple or the infinitive plays the part of a verbal teuse.

Nay, more, those very prefixes, which beeame part of the verb, have an independent use as auxiliary verbs.

The Hebrew $\boldsymbol{\sim}$ ㄱ, the Syriac loon, the Samaritan $\exists 77$, which are the triliteral forms of our first prefix a or $h$, are used precisely as auxiliaries with a verbal noun or infinitive. It is the same with the root $\boldsymbol{M} \boldsymbol{\sim}, ~ \Lambda \boldsymbol{\jmath}$, the triliteral forms of our third prefix $t$. The subject is often inserted between the auxiliary and the verbal root or theme.

In Arabie we have a striking use of the particle $\bar{w}^{T}$ or ${ }^{5}$ ! , followed by the subject in the aceusative, and the verb as a nominative noun. This particle, which is our second prefix $n$, has formed many others in Arabie, where the primitive meaning of the substantive verb can still be traced.

All these so-called anomalies and irregularities disappear with the theory now advanced.

The verb was primitively invariably treated as a noun; the Aorist-Past is simply this root with the pronominal possessive suffixes; and the Aorist-Present, which is the only tense in Assyrian, was a compound of one of the substantive or auxiliary verbs and a verbal root or noun.

Though surprising as this conclusion may be to some, it seems to me to be the only satisfactory way of explaining the forms of the Semitic verb, and the anomalies of grammar and syntax of the Semitic tongues.

In the course of this paper I have referred only once or twice to the old Egyptian, but it may be noticed the same course of development was followed in it. If we knew only Coptic, and if the old Egyptian had been entirely lost, the Coptic forms would neeessarily have remained unexplained, as they were still for Peyron. But the formation appears clear when Coptic is placed side by side with Egyptian. See table B.)

It must be noticed that when Coptic was derived from Egyptian, the rerbal furms had already been fixed. The pronominal suffixes added to the verb had to a great extent lost their possessive value, and only served to designate in the verb the person and number; for this reason they were retained in the auxiliary, and appear therefore as having been inserted between the auxiliary prefix and the verbal root. Tbough we have many examples of this in Semitic
tongues, as with the Syriac verb foor and others, the auxiliary did not always retain the pronominal suffixes, which appear in fact quite pleonastic with a substantive verb, and had, when the Semitic tongues were formed, retained still clearly their original force.

Of course, as a race progresses, there is a tendency to precise the meaning of the words more and more, and to distribute methodically all the forms to certain fixed uses. This is evident in Coptic, where the form with Ep prefixed has been localized to the third person. In our own modern tongues we see that when there are two or more expressions for the same idea, the careful writer tries to give to each a special meaning. "I loved, I did love, I was loving, I have loved," would, among primitive people using a primitive language, have the same force, but among cultivated Englishmen each of these expressions carries a different idea. The same has happened with the Semitic verb, the forms with uncertain meanings have been more or less distributed and localized in course of time. In modern times in vulgar Arabic the tenses are undergoing the same process of distribution, and we may even now foretell a time when the Arabic language will possess a Past, a Present, and a Future.
$\therefore 4(4)=10 \quad 7(7)=$ 古
： $4(4)=$ 如，都 8 ． 7 （7）＝谷
$\left.3 \quad 1 / \frac{1 \%}{i ;}\right)=\frac{4}{\pi 17}$
9． $72(\cdots)=t$
4．$\quad\binom{$ 2 }{$\therefore \cdots}=.\overrightarrow{x+}$
10． $7(\cdots)=\sqrt{7}$
5．$L-G=X$
12． 7.7$)=\frac{\text { 分 }}{71}$
6．$L \operatorname{LO})=\bar{\chi}+$
12． $\left.77\binom{\vdots}{\vdots}=\square\right\rangle$

B．－Characters IDENTIPIED．

$$
\begin{array}{lll}
\top=V & \delta=C H & \Gamma=I \\
\Gamma=O & L=P & \urcorner=\mathcal{K} \\
\boldsymbol{V}=\mathcal{K} & \zeta=F & \perp=Y \\
L=T & O=B & \\
\Theta=\delta & \text { D }=\mathcal{J L} &
\end{array}
$$

C．－－COMPARISON OF THE L．OLO WRITING WITH THF LEGEND OF THK IUARAPA SEAL．


$$
\text { Art. X.-On a Lolo MS. written on Sutin. }{ }^{1}
$$

This splendid MS. on red and bluc satin is, in fact, the first that has reached Europe in the language and writing of the Lolos, ${ }^{2}$ almost unknown a few months ago ; before the important Journey of Exploration in Western $S z^{\prime} e$ chuen, by Mr. E. Colborne Babcr, now Sccretary of the Chinesc Legation at Peking, noticed by him in a paper addressed to the Royal Geographical Society of this country. From this paper we learn that Mr. Baber displayed a remarkable diligence in procuring matcrials for the study of the language and writing of the Lolo population ; his paper comprising a vocabulary, copy and tracing of three documents in the Lolo writing ; but, till the arrival of this wonderful MS., it must be confessed that we had no other Lolo documents.

This MS., on satin, red on one side, blue on the other, in blue rough cloth boards, is folded in eight like a screen. It is written in black, apparently with the Chinese brush, and consists of texts of a considerable length, with nearly 5750 words in all.

The writing runs in lines from top to bottom, and from right to left, as in Chinese. It is disposed in separate rows of two characters, or several aggregated together.

On the red side we have six pieces, going under a general title on the board outside, and having each a separate title of

[^47]four or six words, of which one or two are repeated in every title. Besides this, the first, second, and sixth are separated in two. The text is in verses of five words, separated by a circle at the right under the last word, as the Chinese do. Occasional verses of another measure occur. In the first piece we find two verses of three and one of seven words. The rhymes, which are conspicuous, do not follow or alternate with regularity; they are in some cases separated by several verses. On the red side, after the six pieces, we have two stanzas of five verses of four words, excepting the last, which has eleven words. A final phrase of nine words and two following terminates the writing on the red side, making a total of 2998 words.

The blue side numbers only 2750 words, and is not so well written as the red. The text is disposed in seven parts, each having a separate title of four, five, or six words. The first and sixth are separated in two. In contradistinction to the red side, the text runs unbroken and no traces of rhymes are visible in the first six parts. The seventh is composed of seventeen verses of five words, with rhymes and a concluding sentence.

Mr. Colborne Baber had previously received (but from the French Missionaries) a Lolo MS. not written with the brush, but yet more regularly written than that on the satin MS. This copy, which contains several texts, he had xylographed by the Chinese process and sent three copics to Europe. $\Lambda$ list of the 450 different words of this xylographed text of 1850 words, which I compiled with great care and classified according to their graphical shape, displayed at once an extraordinary resemblance with the Rejang alphabet of Sumatra. We sce in it the same system of combining the letters one with the other, and the same mode of embodying the vowel sign with the consonant ; but it would have been difficult to go further without the materials Mr. Baber, with singular perseverance, secured during his journey. They consist of :

1. $\Lambda$ bilingual or rather bi-written text, Lolo and Chinese, of 133 words ( 60 of which are different). It is a Lolo song, in verses of five words, in rhymes with a periodical return
of the same rerses. Chinese characters, which scem hardly to have more than a phonetic value, accompany cach Lolo word, so as to enablo a Chinaman to read it. The two writings are much corrupted, and, in some cases, are decipherable only by comparison.
2. A small vocabulary of 19 words written in Mr. Baber's pocket book by a Lolo medicine-man, with the scusc, but without the sounds.

As to the words of the languagc, we have in Roman characters:
a. A vocabulary of 230 words compiled by Mr. Baber.
b. A vocabulary of 72 words or articles extracted by the Rev. Dr. Edkins from Chincse sources.
c. A vocabulary of 130 words collected by the French explorer, M. Francis Garnier, ${ }^{1}$ a list, showing that the dccipherment of this remarkable writing is a matter only of attention and time, the words of the Lolo vocabulary in native writing, with the bilingual text, forming the clue to the wholc.

The written words of this small vocabulary, which are found again in the bilingual document, with an approximate pronunciation in Chinese characters corresponding with the Roman transcription of the word in one or other of the three vocabularies, are decisive in this matter ; we have only to take them as the starting-points of comparison with the other words of the bilingual document, to be able to deduce the phonetic valuc of the added characters. For example:

On the Lolo list we have a certain group for seven, which in the vocabulary is shih; on the bilingual document it is rendered by 草 ch'o or tsö; but this does not occur in any other word of the bilingual document.

On the Lolo list we have (the figures correspond to the Lolo characters on Plate A):
$(1)=$ ten, in the rocabulary ts'é.
$(2)=$ five, in the vocabulary to ; in the bilingual document 都 to.
${ }^{1}$ These vocabularies, however, taken on different spots, exhibit only slight differences; some are ouly due to phonetic decay.

We find，besides，on the bilingual document ：

$$
\begin{aligned}
& (3)=\text { 耑 twan. } \\
& (4)=\text { 对 it tui. } \\
& (5)=\text { 天 tien. } \\
& (6)=\text { 对 tui. }
\end{aligned}
$$

From these six examples it is easy to deduce the form of the character for $t$ ．

In this case，as in the preceding one，we have to take into account that the spoken vocabulary belongs to a dialect more phonetically decayed than the written ones．

In the bilingual document we find（see Plate A）：

$$
\begin{aligned}
& (7)=\text { 古 } k u . \\
& (8)=\text { 谷 kuh. } \\
& (9)=\text { kiu. } \\
& (10)=\text { 庚 keng. } \\
& (11)=\text { 耕 keng. } \\
& (12)=\text { 抡 kut. }
\end{aligned}
$$

It is not difficult to see what in these six examples the character for $k$ is，and that in the last compound we find again the character for $t$ ．

Continuing the same process，which here would be tedious if more fully exemplified，we have already found a certain number of the characters，as those for $v, o, k, t, s, c h, p, f, b$ ， $m, l, n, y$ ，which are figured in the accompanying Plate（B）．

The number of the whole scems to be under thirty．
The importance of the writing discovered by Mr．Baber cannot be overrated．It gives us the link which was wanting to understand the connexion between the various members of a family of writings widely disseminated．${ }^{1}$

[^48]Its interest is shown by four remarkable facts:

1. The intimate connexion of the Lolo eharacters with the legend of the stone seal found at Harapa, near Lahore, ${ }^{1}$ in an exeavation undertaken for the Arehrological Survey of India by Major Clarke, which from archsological evidence General Cunningham assigns to four or five hundred years before the Christian Era.
2. Its extraordinary resemblanee with the Rejang and connected writings on one side, and the Corean and Hifumi Japanese on the other.
3. Its remote affinities with the Indo-Pali, the last exhibiting in some eases more corrupted shapes of eharacters.
4. Its many affinities with the Siao-ehuen Chinese writing in use a few centuries b.c.

Terrien de La Couperie, M.R.A.S.
Lowdon, Dec, 19, 1881.
${ }^{1}$ See the Plate C.

## $=$ $=-1$ $y=-1$

## J O URNAL

${ }^{0} F$

## THE ROYAL ASIATIC SOCIETY．

Art．NI．－On Tartar and Turk．By S．W．Koelle，Ph．D．， Corresponding Member of the Royal Academy of Science in Berlin，and Missionary of the Church Missionary Society．

There is something in a name．Properly it ought to comprise all，or at least much of what is contained in the thing named．The name is therefore a very weighty and important word．In dealing with it，we may be struck as the Tartars were，when they first handled iron；for it evidently gave them the impression that it contained some mysterious substance，some kind of stuffing，concealed under its surface；and therefore they called it $\mathrm{j}^{\prime}$ timur，i．e． ＇a stuffing，a filling，or something filled，stuffed．＇ 1 The Turkish language is remarkably transparent in an etymo－ logical point of view，most of its names being still easily traceable to their roots and to their original signification．

The Tartars and Turks have acted such an important part in history，and imprinted their track so deeply on its pages by deeds of blood，fire and desolation，that it cannot be un－ interesting to subject their names to a serious investigation， in order to understand their true grammatical form and etrmological derivation；to ascertain their import，or of

[^49]what special national characteristics they are the expression ; to trace the origin and extent of their use ; and also briefly to inquire how far the light of history in which these nations appear is in keeping and harmony with the light which philology casts on their names.

## I.-On the name of $T A R T A R$.

Every one knows that formerly all Europe was agreed in saying and writing Tartar, and that only in modern times people have begun extensively to substitute the form Tatar. The scientific men of Germany took the lead in this innovation, so that now in German literature the mutilated form Tatar has almost completely usurped the place of the correct and original Tartar. This change was considered necessary, because it had been found that the Arabs, Persians and Ottomans always used the form Tatar, and that even the Mohammedan Tartars of Russia and Turkey now all appear to have adopted this mutilated form of their name; and I admit that these are at first sight very plausible and apparently decisive arguments. In Russia the example set by the literary men of Germany is followed universally; but in England and France a happy conservatism in the use of words, once current in the language, has hitherto prevailed to retain the old and true 'Tartar'; and only a few learned men, satisfied with plausible but still misleading arguments, have ventured practically to adopt the German innoration. There seems danger that cren in England the change, now hardly commenced, may become general, if full and true light is not brought to bear on the subject. For even so great an authority as the present Archbishop of Dublin, in his work " English, Past and Present," expresses himself thus: "Tartar is another word of which it is at least possible that a wrongly assumed derivation has modified the spelling, and indeed not the spelling only, but the very shape in which we now possess it. . . . Wheu the terrible hordes of Middle Asia burst in npon civilized Europe in the thirteenth century, many beheld in the ravages of
their numberless cavalry a fulfilment of that prophetic word in the Revelation (Chap. IX.) coneerning the opening of the bottomless pit ; and from this belief ensued the change of their name from Tatars to Tartars, that thus it might be put into eloser relation with 'Tartarus' in Hell, out of which their multitudes were supposed to have proceeded." Others are still more explicit than the learned Archbishop, by affirming that it was St. Louis of Franee, or the Pope of the day, who, on first liearing the name of this terrible foe, made the jen de mot with their name and tartarus which caused the supposed alteration.

This view of the origin of the name Tartar is the one universally adopted by the present literary world of Europe. Considering the diffieulty of arriving at unanimity on any scientific question, it is really astonishing that this singular theory should have been aecepted with such general favour. Actually the wit of a King, or a Pope, or of some one else, is supposed to have succeeded in keeping all Europe for centuries from becoming aequainted with the real name of a terrible nation which spread devastation as far as Breslau, and in causing it to be known only by a false name. Tartar was the only form used not merely in the Latin, but also throughout the Greek world. It was not till quite recently that the Greeks, following the example of the Germans, Russians and Osmanlis, have begun to write Tatar for Tartar. Bearing this in mind, what amount of credulity is required to believe that the then already deeply divided and antagonistic Latin and Greek worlds suddenly agreed in viewing those murderous hordes from Central Asia as coming out of tartarus, and in designating them accordingly with a new name? But this theory is rendered still more untenable, if it is ascertained that even the Chinese are not unacquainted with the form Tartar, pronouncing it Taltal or Tata. Or is any one bold enough to affirm that they also benefited by the western wit and learned from the Europeans to name after tartarus a people with whom they had had the closest connexion for a thousand years, conquering them and being conquered by them? It would appear rather that
this whole thcory of a European origin of the name Tartar and its connexion with tartarus must be relegated to the category of myths; and I could hardly have a better justification than the wide acceptation of this strange theory for coming before the public with new and, I trust, true views on the subject.

The general appellation by which those Asiatic hordes first became known to the European contemporaries of Genghizkhan was plainly a new name in Europe, arriving with the people that bore it. It is neither a Persian, nor an Arabic, nor a European word, applied to the strong hordes as a proper name, but was brought by them from their Asiatic steppes, and thereforc doubtlessly belongs to their own language, and has to be cxplained according to the common rules of Tartar etymology and grammar. The name itself could not originate in the Latin tartarus; but if, on being first heard, it suggested to King Louis, the Pope and others the idea of tartarus, this could be done cqually well, whether the form then used was Tartar or Tatar, in the former case even still more naturally.

I shall now undertake to demonstratc that Tartar is a genuine Tartar word, with a strikingly suitable signification; whereas Ta-tar is no Tartar word-form at all, and Tat-ar offers no suitable meaning. If I can prove this satisfactorily, it will be conceded, no doubt, that the philological argument is in favour of Tartar as the original and proper form of the word. But we are not restricted to the more lingual proof, and although it originally satisfied my own mind, I am now able to support it with several additional arguments of an historical character.

The word Tartar is a repetition of tho root tar (Tar-tar), just as in barbarian we have a repetition of the root bar; and to my lingual sense it appears no less strange to say Tatar for Tartar, than to say babarian for barbarian. Forasmuch as all primitive roots of the Tartar languages are monosyllabic and terminate in a consonant, ${ }^{1}$ the noun Tartar must needs be derived from the root tar; and etymologically the ouly possible alternative is, to regard it cither as a reduplication of

[^50] developed form of this root, by the addition of $t$ by which causatives are formed (Tar-t-ar).

The reason why Ta-tar cannot be a genuine Tartar word, but only a corrupted form, owing to a foreign influcnce, is this, that, according to a well-known general law of the Tartar languages, all enlargements or developments of roots, and all additions for the indication of grammatical forms, invariably take place at the end, never at the beginning of a word. The Ta of Tatar, therefore, cannot possibly be a formative prefix. To accept Tatar as a genuine Tartar word, it would have to be read not Tu-tar, but Tat-ar. In a formal point of view this is quite as admissible as to derive it from
 have to be derived from cintj tat-maq 'to taste,' and Tat-ar would signify 'one who tastes, a taster,' -a signification unsuited as a general appellation of all the Tartar tribes. There is indeed a Tartar Kabile which is called Tat, as [ have learnt from Tartar refugees in Constantinople; but when the Tartars pronounce their name, they do not say Tat-ar, but Ta-tar ; and Commander Telfer, in his edition of I. Schiltberger's "Bondage and Travels," p. 176, appends a note to the effect that "Tut is merely a contemptuous term, applied by the Crimean Tartars to the Tartars of the south coast, because they did not consider them of pure descent."

If, on the contrary, Tartar is the original and true name, it proceeds from the root tar, and has a signification expressire of one of the most characteristic peculiarities of the generality of Tartar tribes, thus answering to the claim justly made on the general appellation applied to a great number of different tribes. The general import of the root tar was that of 'drawing, moving' (in German ziehen), which, at the earliest formation of the language, resolved itself as follows, namely: as drawing together, contracting, collecting; as drawing asunder, separating, dispersing; as drawing out, along, away, moving, migrating (in German ausziehen) ; as drawing, or moving about, wandering, leading the life of Nomads. All these different modifications of one
and the same general meaning can still be elearly traced in the language by means of a variety of words whose common base and connecting tie is the root tar, as will be patent from the following instances.

The bare root is still used in these several but cognate senses :-

1. تار or ${ }^{\text {of }}$ or tar, dar ' narrow,' i.e. 'drawn together,' ' eontracted.'
2. تار tar 'piece,' i.e. 'what is drawn away,' 'torn off,' e.g. تار تار lit. 'piece-piece,' i.e. 'piece by piece, in pieces, in parts, in divisions.' In 'Tshagatai this same root has assumed a termination: $\mathrm{\rho}$ tar-am 'piece.'
3. ${ }^{\prime}$ 'pate' (from the drawing asunder, parting, the hair). Also found with a termination تارك tar-eli 'pate' (thus often marked as Persian).
4. 'تار 'thread, warp' (from being drawn out long). This same word, with the same meaning, is also found in Aryan languages.
5. In ترخ ترخان Tar-Khan=' Draw- or moveKhan' :
a. "Title of a dignitary at the court of the Tartar Khans who enjoyed special privileges, as exemption from tribute, free aceess to the Ruler, ctc." -i.e. who was privileged freely to "move about" without being checked by the laws binding on others.
b. Proper name of a Tartar tribe (riz, as either themselves enjoying special privileges, or as deseendants of a Tar-Khan).
The following Tartar words are off-shoots of this root, and their number could be easily inereased.

طارغور tar-yun or طارغين tar-yin 'angry' (properly 'drawu together, or contraeted, mentally').

تاريتّتق tár-iq-maq, in Tshagatai : 'be narrow, contraeted; be angry.'

لا, تا, tar-iq, $i d$. (ciz. either as a speeial piece or portion drawn off from the wide expanse of what remains uneultivated, or as drawn out in long furrows).
 out long furrows).
ط târ-aq 'comb, rake, harrow,' (sc. with which one draws out).
L, G târ-a, in Yakutic: 'to comb' (i.e. draw out and separate the lair).
(Hant tár-t-maq ' to draw, draw out, draw together, draw back' (transitive) ; 'to weigh' (i.e. make the scale 'draw'); 'to ponder' (German erräyen).
 zerren).
"أرتى and târ-t-i ' weight' (ciz. as making the scale 'draw').
 a matter successfully to draw or move to its desired end ; or, perhaps, as weighed).
 dispersed, scattered, in disorder' (i.e. drawn or separated all about).
 (intransitive).
 or move without hindrance).

تأرتاتٌ tür-qāq ' scattered, unloosed.'
, T. تار tarr-măr 'seattered, confused, in disorder.' This is a genuine Tartar formation (but of which the Persians have

 jushata-masha 'all sorts of Pashas,' etc. Only one unacquainted with these characteristically Tartar-formations can attempt to connect it with the Persian $\boldsymbol{\text { Lu }}$ mär ' serpent.'

In a formal point of view it would be quite possible, as already mentioned, to derive the name "Tartar" from the enlarged root تارْتَّ târ-t-maq, and then Tar-t-ar would be 'the drawing one, the drawer,' in a transitive sense, as e.g. 'drawing the sword,' 'drawing water from a well,' ctc. But as the Tartar nations, at their first appearance in history and before their warlike exploits (which disposed them
rather to discard their former name), were pre-eminently known as wandering tribes, unattached to fixed localities, and since any name ought to be the expression of some prominent characteristic, it seems more reasonable to regard this word as a repetition of the root tar.

That the formation of words by means of reduplication, especially in indicating sounds and motions, is not foreign to the Tartar languages, but that such words are still in actual use, will be seen from the following examples:-

غرغرهمقن خir-fir-maq 'to rush, gnash, crash.'

فرفرّ8 far-far-a 'babbler, boaster.'
ز.

par-par or paril-paril or adverbial qualifications of يانيتَ yán-maq 'to burn,' as 'burn brightly, violently, furiously.'

Inasmuch, then, as the Tartar languages, like many others, express intensity and frequency of the radical notion by means of reduplication, and having learned from the previous examples that the import of the root tar is that of drawing, moving in general, we shall not go wrong in determining the meaning of the name from this point of view. 'Tartar, accordingly, signifies 'the move-move,' that is, one whose repeated doing, whose most striking peculiarity is the moving from place to place, without fixed habitation, one who constantly wanders about, or leads a nomadic life: the Nomad, the Turkoman. Thus the enigma solves itself at once before us, why different tribes, with the same nomadic propensities, whilst each had its own distinguishing tribal name, yet at the same time shared in the cominon appellation of Tartar; and we can easily perccive why it must have been confusing to regard the latter appellation too soon as a proper nainc. In the sense of the original meaning of the word, a tribe could bccome Tartar, or, after having beeu, ccase to be so. Already in the fifth Christian century there was a tribe which was called by the

Chinese "Ouei-Tartars," i.e. " house-Tartars,"-in all probability from the circumstance of their having exchanged tents for houses as their habitations, thus differing from the other Tartar tribes, and in this case their retention of the name Tartar had bccome as inappropriate as if we speak of southern Normans or of Bedouins of the city. The fact is that Tartar and Turk were originally mere appellatives, and only passed into proper names gradually and when the original signification of the word had become obscured or lost. The historical truth is therefore the very reverse of the general, vulgar opinion, according to which both these terms were originally the proper names of two special tribes, which, in course of time, were extended to a number of cognate tribes, just as, e.g. the name of "Franks" is applicd by Orientals to western Europeans in general.

The Tartars, proud of their nomadic independence and unchecked liberty, and of the manliness incessantly tested and proved thereby, in all probability at first chose this name for themselves as an honourable distinction. This may be inferred from the circumstance that they also possess in their language a name for non-Nomads or settlers, namely,
 to which also the unenviable meaning of "poor, contemptible, rascal, liar," has become attached.

In course of time the name of Tartar also acquired the meaning of "fast messenger, postman;" because these Nomads, the owners of countless camels and horses, as acquainted with the roads and accustomed to trasel, were the nost suitable persons to be employed for distant missions and messages requiring speed. In Turkish تاتاری Tatari= 'the Tartarian,' is still the name for a letter-carrying or post pigeon.

The above views naturally presented themselves to me during my close examination of the Tartar roots, in the course of my study of the Turkish language for Missionary purposes, and it was not till November 24th, 1880, long after my own viers had been formed and matured, that the "Geschichte der Mongolen oder Tataren, kritisch bear-
beitet von O. Wolff," Breslau, 1872, came into my hands (in the British Museum), and I learned for the first time that some one besides myself had been on the right track in ascertaining the true etymology of the word Tartar. I, with pleasure, hail this circumstance as a confirmation of the correctness of the views and principles laid down above. Professor Wolff, in explaining the Chinese Tata for Tartar, says on p. 25 of his work: "The same Tata is originally Tungusian, proceding from the radical notion 'to draw' (trahere) ; in the Mongolian tata-chu means 'draw, pull;' and inasmuch as tata-ri means 'tax, tribute,' the meaning of drawing together, collecting, must also be contained in the word, just as this is actually the case with the Manjou word tata-me. Tata seems to signify a Nomad, as inhabiting a tent or yurte in the desert; and this all the more because in Manjou tata-boo signifies 'tent, yurte;' and tatan 'tent, dwelling in the steppe." " On this interesting passage I will only remark that if Tata is "originally Tungusian," this can only mean that the Tungusians pronounced 'Tartar' as 'Tata'; and if its root in Tungusian, and tatuchu in Mongolian, or tata-me in Manjou, signify 'to draw, to pull,' this only shows a radical affinity between thesc languages and the usual Tartar. For after the examples I have produced above, there cannot remain the shadow of a doubt that Turtar is a Tartar word, regularly formed from the root tar, and that its equivalent $T a$ or Tata in any other language can only be a modification or mutilation of it. It is also plain that if the original and proper mcaning of Tartar is 'wandercr, Nomad,' this is from the reason I have shown above, and not because in Manjou tata-boo and tatan signify 'tent,' as Professor Wolff suggests ; becausc tata-boo means simply 'Tartar-dwelling,' from the same reason from which we call a certain bird a turkcy. But that Professor Wolff, without having read my article, should have formed the idea that Tartar or Tata means Nomad, as derived from a root signifying 'to draw, move, wander,' does him great credit, and I can only wish he had furnished a fuller supply of lingual data in proof of his correct affirmation.

Thus far we have seen that Tartar is a regularly-formed Tartar word, and possessing a strikingly suitable meaning, whilst Tatar is neither ; and if we now find that the widespread existence and cxtensice use of the word Tartar, since the time the Tartar nations themsclves became known, are historical facts which cannot be gainsaid, this cannot ecrtainly surprise us, but rather must confirm us in the conviction that the name in this form was brought to us by the Tartars themselves, and docs not owe its origin to a jocular play on the word of tartarus in Hell.

Klaproth, in the carly part of the present century, is geuerally supposed to have been the author of the theory that Tutar is the original form of the word, and that the change into Tartar was caused by a letter of St. Louis, King of France, which he wrote to comfort his mother Blanca in her distress at the rapid advance of the Mongolian Tartars under Batu, A.D. 1241, and in which he says, "We shall either thrust back those whom we call Tartars into their own scats in Tartarus, whence they procecded, or else they will transmit us all up to heaven." But independently of the fact that this form of the nane occurs already in a narrative of the Dominican Monk Julian in the year 1237, and in the letter of an Hungarian Bishop to the Bishop of Paris in the year 1240, St. Louis himself seems to intimate in his letter that this name was then already current, by saying, "Those whom we call Tartars."

If the form Tartar had been given to this name in consequence of a jeu de mot, used originally by St. Louis, or a Pope, or any other person of mark in Western Christendom, every one acquainted with the deep and bitter antagonism between the Greek and Latin Churches in those days, knows full well that the very fact of such a corruption of the name having taken its origin in the Latin west, would of itself have prevented its adoption by the Greek east, which besides was so much nearer to the original source of information. But I have been assured by a learned Greek author, Dr. Paspati of Constantinople, that the form of the word universally used amongst the Greek population in the east, from
the earliest down to modern times, was that of Tartar, not Tatar; and I have convinced myself of the truth of this statement by a reference to a Byzantine history in the British Museum, namely, the Corpus Scriptorum historiæ Byzantinæ, part xviii., comprising the period between 1203 and 1261, by Georgius Acropolita, where the name of Táp $\quad$ apoı is used, as will be seen from the following passage, copied from




Another historical fact, pointing to the existence of the name Tartar in Asia, and consequently amongst the Tartars themselves, is found in the geographical work of the celebrated Professor Ritter, where it is recorded on p. 1695 of volume xvii. 2, that there is a village in the neighbourhood of Aleppo which bears the name of "Ibn Taltal." Although Professor Ritter had adopted, like most of my German countrymen, the exelusive use of the form Tatar, yet he explains in parenthesis that this name stands for "Ibn Tartar." This interpretation is quite correct; for Taltal is not an Arabie word, but evidently the Chinese pronunciation for Tartar. The Chinese having no $r$ in their language, cannot pronounce this letter ; and if they attempt to do so, they give it the sound of $l$; e.g. an English Consul told me that they once had an English-speaking Chinaman in their family, who, when asking for rice, invariably pronounced the word as if its first letter was $l$, thus causing a frequent merriment. But if the Chinese, of whom there must have been great numbers in Genghizkhan's army, since le was the virtual Ruler of all China, were aequainted with the word Tartar, and in their effort at pronouncing it could only say Taltal, it is plain that they must have received the name from the Tartars themselves, with whom they were mixed up, and that consequently the form Tartar is not of European origin, but must have been indigenous to the people who bore it. The existence of this village-name in Western $\Lambda$ sia down to so recent a date also shows that its mutilated form Tatar, adopted by the Arabs and other Orientals, could not
wholly supplant the original and regular Tarlar, and that the latter affirmed its right of existenco as tenaciously in Asia, as it has donc in Europe.

I may here introduce a passage from the work of Professor Wolff, above referred to, which strongly bears in the same direction. On page 26 we read thus: "In the Journal Asiatique, II. 246, A. Remusat has further proved that certain provineial dialects (of China), e.g. that of Fukian, have the $r$, and consequently say Tarlar, intstead of Tata; and from this it follows that not only the form Tatar, but also that of Tartar, was current in Persia and in China long before any tidings of the people that bore this name reached Europe." If this statcment is correct, it amounts to a proof that the form of the name used in ancient times by the Tartars themselves was that of Tarlar ; for it was only from them that the Chincse and Persians could have originally received it. I referred to all the pages 246 vol . ii. of the different series of the Journal Asiatique, without finding there A. Remusat's article, so that there would seem to be a misprint in Professor Wolff's quotation; but in the "Recherches sur les langues Tartares par M. Abel Rémusat, Paris, 1820," I found the following similar passage on page 4: "It is well to observe that the Chinese character Tha is pronounced Tar in the Tchin-tcheou dialect, and perhaps in others, which by doubling gives the exact word Tartar."

Another historical testimony in farour of the originality and correctness of the form Tartar is contained in the fact that Mareo Polo, in the account of his remarkable journey through Central Asia, and W. de Rubruquis whom Louis IX. of France sent to the Tartar Khan as Ambassador, as well as I. Schildberger, who grew up amongst the Tartars and lived for years in Genghizkhan's army, so as to become fully acquainted with their language, and probably more familiar with their terminology than with that of his own native country, from which he had been separated when a mere boy of thirteen, -all use the word Tartar in their writings, without in any way mentioning the form Tatar, or the least
intimating that the name they employed differed from that which they found in use amongst the Tartars themselves.

History also gives us hints which enable us to account for the gradual decrease and partial discontinuance of the use of the name Tartar. We learn that the different tribes who from the remotest antiquity inhabited the vast regions of Northern and Central Asia had each their separate name by which they were distinguished from each other, but that a great many of them were also comprised by general appellations, such as, e.g. Tartar and Turk, which designated them according to their characteristic mode of living as Nomads or wanderers, and by which they became chiefly known to the neighbouring nations. But every one knows that the nomadic mode of existence is one of the most primitive, and that the settled populations who occupied themselves with agriculture and trade were always prone to look down upon the Nomads as uncivilized and barbarous. In illustration [ will merely transcribe the definition of the word Tuta or Tartar, as given by an eastern and a western dictionary. According to D'Herbelot's Bibliothèque Orientale, Supplement, p. 147, the Chincse dictionaries define the word Tuta thus: "This is a general term which comprises all the Tü (=dogs), or, as some explain it, all the barbarians of the north." In Roberti Stephani Thesaurus Linguæ Latinæ the term Tartari, sivi Tattari (Tá $\rho \tau a \rho o \iota$ ), is rendered on this wise: "Gens ipsa fera, atrox, crucnta, inconditis moribus et omnium barbarorum maxime barbara." Now as the civilization and agriculture of neighbouring countrics roused their cupidity and impelled them for centurics, by desperate cfforts, to put themsclves into possession of the fertile provinces of China, or the attractive regions of Western Asia, so also the contempt in which they were held by their neighbours naturally tended to make them dissatisfied with their own condition, to turn them to other pursuits, e.g. that of war and conquest, and to incline them to disnse and spurn the very name which in the eyes of their neighbours was the embodiment of their inferiority. Accordingly we find that the modern Turks hare entirely dropped the name by which
we call them, using instead that of Osmanli or Ottoman, and history tells us that a tribe of black Tartars who entered the path of conquest had quite given up that name and called thenselves Mongols, i.e. 'the brave, the bold,' considering themselves offended, when the Ambassadors from the west addressed them as Tartars; for they had conquered the white Tartars, " whose very name they had extinguished, together with the nations which bore it" (sce Bibliothèque Oricntale, p. 148). From the time, therefore, when Genghizkhan had extended this Mongol supremacy over the greater part of Asia, the Tartar name was no longer owned by any great Government ; and though still known among the people, and travelling with them westward, yet may have been for some time chiefly used by the Chinese portion of the Mongolian army, and others, when they wished to distinguish the nationality of the Tartar tribes, with whom they were mixed up, from their own. Thus the existence of the name Taltal in Western Asia, mentioned by Prof. Ritter, becomes quite intelligible, and even light may be thrown on the origin of the form Tatar, so much in vogue amongst the Mohammedans and modern Europeans.

The advocates of Tatar as the original and true form are bound satisfactorily to account for the origin and extensive use of the form Tartar, a duty in which they have signally failed; and now it is incumbent on me, after having given the etymology and meaning of the word Tartar, and shown its widespread use, to explain how the mutilated, un-Tartaric, and obviously foreign form Tutar could arise, spread, and be adopted even by Tartars. For both words are undeniable historical facts, which must be dealt with as such, and satisfactorily accounted for on the broad basis of philology and history.

The first principle to be referred to is the physiological one, that it is easier for the organs of speech to have only one instead of several consonants between two rowels, and that in most languages changes of words have taken place from an inclination to an easier, more careless pronunciation. Tatar, and even Tattar, is pronounced with less effort than

Tarlar. When talking rapidly, the pronunciation of the name by the ancient Tartars themselves may have approached this easier, simpler form, and may in some tribes, under a change of local and social circumstances, have become more or less common.

A second possibility how the original full form Tartar may have become changed into the mutilated Tutar, is the Arabic influence through which it had to pass. When the Tartars appeared in Western Asia, Mohammedanism had already made the Arabic language dominant there, so that even the Persian was written in Arabic characters, and had adopted a great many Arabic words. Therefore the Tartar name also was first written in Western Asia with Arabic characters, and by men who held Arabic in religious veneration. Now the Arabic is just one of those languages, rich in vowels, which are unfavourable to the accumulation of consonants in immediate contact, and it is quite possible that this Arabic influence deprived the first syllable of the word Tartar of its $r$, which was all the more easy, if this consonant was already slurred over by those from whom the Western Asiatics first heard the name pronounced. That this possibility is something more than a mere gratuitous assumption, appears from the fact that the Mohammedan nations of Western Asia under Arabic sway, namely the Persians, the Turks, and the Arabs themselves, write with equal unanimity as Tatar for Tartar, so also Mogol or Mogul (ل⿻𨈑㇒. and lev) for Mongol or Mongul. The Mongols are a Tartar race, long known as Black Tartars, who in passing from the state of nomadic shepherds to that of warriors and conquerors, dropped the name of Tartar and adopted that of Mongol, i.e. 'the couragcous, the brave.' Some time after this change of name had taken place (sce Bibliothèque Orientalc, Sup. p. 148), a mighty warrior, Genghizkhan, ${ }^{1}$ arose amongst them, through whose exploits their adopted name acquired a world-wide fame. Although therefore the nane Mongol was originally chosen in opposition to that of Tartar, yet it is quite allow-

[^51]able in an ethnographical point of view to use them synonymously. In II. Howorth's "History of the Mongols," p. 1, authorities are given for deriving the name Mongol from the root mong 'brave, daring, bold '; and the circumstance that the Chinese call the Mongols Mung-ku or Mun-ku, shows that they also regarded the first syllable of the word as closed and not open. In full harmony with this, all Europe always wrote, and still writes, Mongol. Only the Arabs, Persiaus, and Turks write Mogul; and it is no doubt owing to the circumstance that Persian was the Court language in the Mongolian empire which Sultan Babur founded in North India at the beginning of the sixteenth century that the ruler of this empire was called, and is still generally called, Great Mogul, instead of Great Mongul. Now, if it is a matter of fact that the three Mohammedan nations $j$ ust mentioned did drop the final consonant of the first syllable in the name Mongol, it is no longer an unjustifiable assumption to suppose that they may also have done the same thing in the word Tartar; and if Europe does not follow their example in exchanging Mongol for Mogol, neither does their practice of writing Tatar for Tartar deserve any more to be regarded as a precedent we should follow.

But although the possibility must be conceded that the change of the word may have arisen from the Arabic influence through which it passed in making its way westward, this change, in my opinion, is rather owing to the peculiarity of the Chinese language, and to the influence it exercised on the Tartar, as the result of a close intercourse between the Chinese and the Tartars for many centuries.

From the most ancient times the Chinese bad been conterminous with sundry Tartar tribes who occupied the rast regions to the north and west of China. The Tartar tribes generally, as all history represents them, were of nomadic habits, and possessed rast herds of horses, camels, and cattle. But there were also tribes who at different times developed a considerable amount of military prowess and power, and then manifested a decided liking for the more fertile districts and richer provinces of neighbouring China. The Chinese
rol. xit.-[NETK series.]
emperors, for over a thousand years, contented themselves with warding off and repelling those "barbarians of the north," without ever undertaking warlike expeditions to attack or subdue them in their own country. But since the Emperor Han-vou-ti, who began to reign 140 years before the Christian era, opened the way of conquest into the heart of Tartary itself, the intercourse of the tro nations became far more extensive and frequent, and their mutual influence upon each other far more important and telling. Warlike Tartar tribes, with hundreds of thousands of horsemen, made sanguinary incursions on Chinese territory, conquering large provinces; and Chinese emperors subjugated numerous Tartar tribes, and exacted tribute from them, so that a vast extent of country received the name of "Chinese Tartary." A Tartar prince, who had obtained at Chinese seats of learning the academic degree of Linya, and was therefore called Tache Linya, i.e. 'Tartar Academician,' established, by daring exploits of valour, an empire in the far west, which lasted eighty years, his followers having proclaimed him "Emperor of China " in the Persian province of Karamania, A.D. 1125; and more than one Chinese emperor received tribute from all Tartary, which reached as far west as the shores of the Caspian Sea. Genghizkhan, the chief of a Tartar tribe which had adopted the name of Mongol some generations previously, extended his conquests from the farthest east to the remotest west of Asia, his son Batu invading Europe, and penetrating into the heart of Hungary; and in the plenitude of his power he was not only the direct ruler over one-third of China, but also received tribute from the two other thirds, which were governcd by a Chinese emperor as his vassal, so that the sovereignty of Ghengizkhan virtually extended over the whole of China. This close and multiform contact between the two nations for many centuries could not but have a marked cffect upon both; and it was quite natural that the barbarous Tartars should look up to the more civilized Chinese, and seck to benefit by their general culturc. They adopted amongst themselves Chinese ranks and distinctions, and this not unfrequently together with the Chincse
terms; and, as Abel Rémusat in his "Recherehes sur les langues Tartares" affirms, they even made attempts to write their own language in the Chineso characters. Under such cirenmstanees, it is nothing but natural to expeet that the Chinese language should have acquired an influcnce and left traces upon tho Tartar.

We have already noticed that, because the Chinese language possesses no $r$, Chinamen, when trying to pronounce it in a foreign word, generally give it the sound of $l$; and therefore, if they wish to pronounce the word Tartar, they say Taltal. If a Chinaman, in order to please the dominant Tartar race amongst which he lived, wished to call himself a Tartar, or the son of a Tartar, he naturally tried to pronounce the name as nearly as possible in its Tartar completeness, and accordingly did not, in regular Chinese fashion, simply drop the $r$, but enunciated it as well as he could, and thus uttered an $l$. This, no doubt, was the origin of the proper name " Ibn Taltal," instead of "Ibn Tartar," mentioned by Prof. Ritter, as we have already seen. But the more thorough Chinese form in which the Tartar name was used by the sons of the Celestial Empire was that of Ta-ta, in which the final $r$ of each syllable was simply dropped. In the same manner the Chinese eall the Turks Tu-ku for Turku, and the Persians Po-su for Porsu (sometimes also Po-se for Pos-se, Pors=Pars), by again merely dropping the $r$. In D'Herbelot's Bibliothèque Orientale, Sup. p. 147, it is stated that a still more ancient name of the Tartars used by the Chinese was Ta-che, for Ta-chin, i.e. 'the 'Ta people.' If this form of the name had been the later, instead of the earlier, it might have been regarded as a contraction of Tata-che; but as it is the more ancient name, it would seem that anciently the Tartars employed also the simple, unreduplicated form Tar, and therefore the Chinese would naturally call them Ta-chin or Ta-che, i.e. 'the Tar people.' We further read in the Bibliothèque Orientale: "Pour prononcer le mot entier, les Chinois ajoutent eul et lisent Tatal au lieu de Tatar. C'est ainsi entre autres que l'écrit le petit abrégé de la Geographie universelle, intitulé Fam-yu-chim-lio."

It is to this last-mentioned Chinese form Tatal, a mixture of Tata and Tultal, that I believe our western Tatar owes its origin. In fact, the latter is nothing but the correct pronunciation of the former by those to whom $r$ is not an unpronounceable consonant. It evidently arose from the form Tata, through the wish of the Chinese to do justice to the Tartar $r$, at least in the final syllable of the word. We have already learned that many Tartars undertook to write their language with the Chinese characters. Now, if they found their name written as Tatal by the Chinese, this was a precedent which they were tempted to imitate, first in writing, and perhaps soon also in speaking. But as the Tartars did not share the Chinese inability to pronounce the letter $r$, they naturally said Tatar where the Chinese said Tatal. Thus it is quite possible that many Tartars, especially whilst subjected to a Chinese Government, fell into the habit of pronouncing their name as Tatar, partly from writing it in the Chinese characters, and still more from their daily intercourse with the Chinese. Not only great numbers of Tartars who had habituated themselves to the Chinesc pronunciation of their name, but also multitudes of genuine sons of the Celestial Empire, were incorporated in the vast armies which Genghizkhan and his sons hurled against Western Asia and Europe; ${ }^{1}$ and although at that time the Tartar name was officially repudiated, and that of Mongol put forward, yet those amongst these wild Asiatic hordes who had long been accustomed to the old name, carried it with them as a matter of course on their westward mareh, and thus it was brought to the western nations, both in its full and true form Tartar, and also in its mutilated Chincse form Tatar. In the former, the correct form, it found its way amongst the Armenians, Greeks, and the nations of Europe, and in its corrupted, Chinese form annongst the Persians, Arabs, and Turks.

Surprising as it is at first sight that Tartar tribes should

[^52]now be found who have exchanged the original and correct form of a word of their own language, which had almost passed into a proper name, for a mutilated and foreign, though easier form,-yet as regards those Tartar tribes who have embraced Mohammedanism, this surprise will at once vanish, when we refleet on the tyranny exereised by the Arabie on all the languages spoken by nations who profess Islam; for every one knows how, c.g. the name of God, and a multitude of similar words, have been almost entirely superseded in those languages by the corresponding Arabic terms. Now the form of the word employed in the Arabie
 or ${ }^{2}$ ? and its professors ean easily imagine what effect such an example is likely to have had on the Mohammedan Tartars. If the Mohammedan Tartars now pronounce and write their name as Tatar, this may be owing solely to their slavish dependence on the Arabie, to them the embodiment of the highest wisdom and truth, and does not necessarily prove anything as to the original form of the word used by the ancient Tartars. Likewise with regard to the numerous Tartar tribes who had long and closely mixed with the Chinese and looked up to them as their superiors in learning and culture, it may be easily conceived how they may have gradually fallen into the Chinese way of writing and pronouncing their own name; and those who had once adopted the inutilated form Tatal or Tatar amongst the Chinese would naturally also earry it with them in those great national movements westwards. Besides, it is not impossible that the Tartars consciously preferred the mutilated Chinese form of their name, as disguising its original import, and not so plainly calling to mind their national nomadism, of which they had become tired or ashamed, just as it is notorious that the Turks of our day have disearded the appellation of Turk, which, as we shall see, is of a meaning cognate to that of Tartar, and apply to themselves the more high-sounding name of Osmanlis or Ottomans. Nor would the word Tartar
be the only relic brought westwards by the Tartars from the Celestial Empire; the use of Porte, or 'gate,' to designate the Turkish Court or Ottoman Government, is nothing but an imitation of the Chinese $T_{t} t-m e n$, which serves the same purpose in China. Elsewhere, also, foreign influence makes itself felt in a language; e.g. many Turks and Tartars now say Krim, whereas, according to the laws of their own language, they ought to say Kirim. ${ }^{1}$ The Turkish-speaking Greeks of the Ottoman Empire present a very similar case to that of the Tartars who have adopted the name Tutar; for they invariably call themselves Room, i.e. Romans, a name not originally their own, and which the Arabs and Turks applied to them from the first. We also now all speak of Stambut, although we may know that it is nothing but a Turkish corruption of Constantinople. ${ }^{2}$
${ }^{1}$ On the other hand, they seem to have Tartarized the German Groschen into
 name, and the coin it represents, travelled from west to east, or from east to west.

2 According to a view now very generally held, Stambul, or, in its full Turkish form, Istambul, was derived from єis $\tau \grave{\nu} \nu \pi o ́ \lambda \iota \nu$. But whoever may have been the anthor of this bold attempt at explanation, he has decidedly proved himself thereby more familiar with the Greek than with the Turkish langnage. From a purely Greek point of view it was temptiug to recognize ets in $I s, \tau \eta \nu$ in tam, and $\pi \frac{\lambda}{}$ in bul. But that this is altogether erroneons, there cannot be any doubt. Even if we are prepared to overlook the strange conversion of a preposition and an inflected article into a proper name, and of $\tau \eta \nu$ into tan, we would naturally expect that then also the eorresponding case of the noun would have been preserved, and that the proper uame would have become Istambulin. But as the new proper name is Turkish, and was fabricated by Turks and not by Greeks, why seck so far-fetched and un-Turkish an explanation, when a Turkish one, and one so far more simple, natural and satisfactory, presents itself? The Greek name Constantinopolis was evidently too long and cumbersome for the Arabs and Tnrks. Therefore their great object was to shorten it; and this was effectually done by dropping the preposition Con and the termination tin of Constantin, and the terminatiou is of rodis. In tho same way they also dropped, e.g. tho Ale of Alexandria (Iskanderiye) and the terminatiou na of Smyrna (Ismir). Then there only remained stan and pol, or Stanpol, whieh, by known laws of euphony, bccame Stambol or Stambul. But as the Turkish langnage caunot begin a word with a donble consonant, it was neeessary to prefix a light vowel, $i$, whieh also in Arabic frcqueutly has this fnnetion. Thus the namo became Istambul (لستـ) for Stambul, just as they also say Ismir for Smyrna, and Iskanderiye for Alexandria ( $k$ s or $x$ being utterly foreign to the Turkish, had to be changed into sk: Skander for Ksander). That the Turks were not unacquainted with the compound naturo of tho namo Constantinopolis appears from tho faet that thoy also use in its stead the simplo ${ }^{2}$ (kostantiniye), i.c. 'tho Constantincan' (viz. 'city'). But we Europeans, who without any diflienlty can

Most of this artiele was already written, when I began to make inquiries amougst the Tartar refugees, who, in consequence of the late war, were for some time living in Constantinople, and who, of course, were all Mohanmedans. Until then, my views on the etymologieal nature of this name had resulted merely from my exhatustive study of the Tartar roots, and therefore rested on purely philological data, whilst every historical consideration seemed to be opposed to them; and I was even still unacquainted with the important bearings of the Chinese oll the question. When I now asked of the Tartars themselves after their nanc, they answered with one accord, "Tatar, or perhaps Tattar." But iny questions so much interested them, that two from amongst them, entirely of their own accord, undertook a mareh of several hours to their oldest and best-informed teacher, and learned from lis own mouth that their name, on the authority of the ancestors and most ancient books, was Tartar; but that the pronunciation Tatar had been adopted because in Turkey and in Russia every one said so, and it was found easier. The people with whom I spoke were quiet, intelligent men, and they assured me repeatedly that their name was properly Tartar, and had reference to the nomadic habits of their ancestors. It may therefore be interesting and desirable to make further careful inquiries amongst those Tartars of Asia who may have remained free from Chinese, Musulman, and Russian influences, if any such can be found, in order to ascertain which form of the word they use. But whatever the result of such an investigation may be, its value can only be of an historical nature, and the lingual elucidation above given would always retain its own merit and importance.

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## II.-On the name of turk.

The word Turk, $t \ddot{u} r-\ddot{u} k$ and $t u ̈ r k$, is a verbal noun, formed regularly according to the laws of the Tartar-Turkish languages, and consists of the root $;$, tur, tür, tir, with the formative affix ${ }^{3} k$ or ' $k$. By this suffix participles or verbal nouns are formed, both of an active and a passive meaning, as will be seen from the following examplesthree of each kind:-

قايق qáy-iq 'canoe, boat' (sc. as sliding, gliding on the water) ; from قايمت qay-maq ' to slide, to glide.'
'dồ-nük 'deserter, renegade' (lit. turning, or turning back); from Ége dön-mek' to turn, to return.'

يوروكت yü̈r-ü-k 'walker, postman, nomad, Turkoman';


كوركت gür-k, in Tshagatai görr-ük and gör-k 'beauty' (lit. a thing to be seen, what may be seen); from gör-mek' to see.'

بنهكت bin-mek 'to ride.'

صارت strr-iq ' the cloth of the turban' (lit. bound or twined


Consequently the meaning of the root $; \quad$ tur, tür, tir, will have to furnish us with an answer to the question why certain Asiatic tribes were called Turlis. Every one may have noticed the fact that Tartar tribes have also been designated as Turks, and Turkish tribes as Tartars. I may therefore already in this place draw attention to the radical affinity subsisting between the words Tartar and Turk. The respective roots of these names are $\quad$ tar and $; \quad$ tur, tür, tir. It appears at first sight that they are identical in their consonants and only differ in their vowels. An extensive classification and comparison of the Tartar-Turkish roots has shown mo that in all probability at the formation of tho language a degree of notional affinity, a more or less closo relationship of meaning, subsisted between all those roots
which agrec in their consonants and only differ in their vowels. In some instances this is still so patent that even a cursory observer can hardly fail to be struck with it; e.g.
 fall, to fall down'; and ${ }^{\text {E }}$ ' dés-mek' to open in order
 'to pause, to hesitate'; cans, $\begin{gathered}\text { dóñ-maq 'to curdle, frecze' }\end{gathered}$ (properly, to change from a fluid to a 'standing,' i.e. solid state) ; 'كمُ diñ-mek 'to stand still, keep silence, to hesitate, to pause'; between ${ }^{\text {a }}$ sā́l-maq' to cast, throw, fling'; cand $ص$ sṑ/maq 'to wither, fade, to "cast" colour';

 grate'; Enço gég'-mek' to go away, to pass by, to pass away.' This original affinity in the import of roots formed by the same consonants is the reason why we sometimes find names of one and the same thing taken from several such roots, which at the same time differ in their vowels. Of this also I will give some examples, illustrating the primitive close affinity betreen tar and tir, the two roots
 tir-im, and $\quad$ تير tir-e ; that for 'rake,' both ${ }^{\prime}$ tár-aq and
 dir-tuq and tir-tuq. Therefore it can no longer surprise us, if we discover in the root $ت$ tur, tiur, tir, the very same, or, at all events, a closely cognate meaning to that of tär, with which we have already become acquainted in the name Tartar.

The Turks themselves sometimes pronounce their name as Türk, sometimes as Turk=Toork; in the latter way, if they use it in the sense of 'uneducated, uncivilized, clown, barbarian'; and the latest Tartar-Turkish dictionary observes that it is to be pronounced with the vowel oo, as in good. The Turkish mode of writing the name is uniformly تركت tuirk, with the soft $k$ sound, never with the hard $\underset{\sim}{ } q$; and consequently not a hard vowel ( $a, 0, u$ ), but a soft one (ii, $i, e$ ), is presupposed in the verbal root. Although this is worthy of note, yet I allow that it is not absolutely decisive ;
because it sometimes happens that hard syllables and hard roots, under the effect of time or locality, become softened; and we have moreover seen already that between the roots with identical consonants (e.g., tur, tor, tar, tür, tör, tir, ter; $b u l, b o l, b a l, b u ̈ l, b o ̈ l, b i l, b e l$, etc.) there must originally have subsisted also a certain affinity of meaning. But the Turkish language in its present state possesses both a hard and a soft verb, so that, as regards the mere grammatical form of the word, its hard pronunciation (Turk = Toork) may be connected with the former, and its soft pronunciation (Türk, Tirk) with the latter. The hard verb is maq and dúr-maq, which signifies 'to rise, stand, stop, last'; and Mr. Vambéry observes that amongst the Turkomans it has the signification of 'to rise up from a place or encampment, to arise.' In Tshagatai, the causative تونرْ túr-yuz-maq 'to awaken, to stir up,' is derived from it, as well as the substantive تورغالّ túr-ya-lan' a popular rising, all insurrection.' If the proper name Turk ( $=$ Toork) was derived from this verb, its original form must have been túr-uq, tur' $q$, and it would have signified 'the rising oncs, those who rise up from their encampments' (sc. in order to march, till they find another),-a signification closely akin to that of Tartar. In the present Tshagatai ت̈g tür-uq means 'clear, pure,' used of water ; that is, what has been allowed to 'stand,' and become purified in consequence of the sediment thus formed. ${ }^{1}$

[^54]Of soft verbs from which the word Turk can be derived, there are sercral. Onc is تورنك tir-med ' to roll up, tack up, turn up, gather (properly, drae together) one's clothes.' From this are derived $\dot{\text { e }}$ ( t $\hat{u}$-le-lemek' to tack or roll up onc's clothes'; تركركن tirr-ken 'having onc's clothes tacked up, alert, brisk, pert'; تورلا ${ }^{\text {ت }}$ tor-laq (derived from the same verb, but treating it as hard) 'a livcly, brisk, pert person, a youth.' Adopting this derivation, which from a grammatical point of view is quite admissible, a Turk would mean 'one who has his clothcs tacked up,' and thus is ready to march and migrate, or to resist and fight; alert, brisk, pert.

The remaining soft roots, having the rowel $i$, sometimes still further softened into $e$, and their derivata, seem all united in their signification by the gencral idea of ${ }^{\text { }}$ drawing, namely, as a spontaneous drawing, moving, living; or as a drawing out, lengthening; or a drawing off, peeling; or a drawing a way, plucking; or a drawing back, withdrawing; or a drawing to and fro, hither and thither, wandering about, migrating, etc. This can be seen from the following ex-amples:-
CTh تير tir-mek 'to move, be in motion, to live.'
دير.ك dir-mek, in Tshagatai ترْ tér-mek' 'to pluck, to gather, collect ' (compare E. tear, Germ. zerren).
-تيركاك tér-ge-mek' to go out of the way, to avoid' ( $=$ 'draw' aside).
ت تيركا tir-ke-mek 'to scold, reprove, call to account' (sompare the German : durchziehen, durchhecheln).
ديرنسكُ dir-in-mek 'to creep, to glide' (=draw along on the ground).
 self together).
ci.lint tir-na-maq' to scratch ' (=draw quickly to and fro), ' to scrape together.'
is generally considered of Arran origin, the striking similarity of its form with that of Turan may excuse me in hoping that men of science will not disdain to examine the name also trom a Tartar point of view.

طرنق tir－naq＇a elaw，talon＇（sc．as seratehing）．
تيريكـت titr－ik or dir－i＇＇alive＇（＝spontaneously drawing， or moving）．

تریى tír－i or dér－i＇skin，hide，husk，shell＇（sc．as drawn off，peeled）．

تيركُ tir－ek or dir－ek＇pole，pillar，mast＇（as drawn out long）．

زيريمر tir－im＇stalk，ear of corn，thread＇（id．）．
تيرينكث tir－ink or لرئن dér－in＇deep＇（id．）．
تيرساكُ curve ；a broken off piece＇（＝what can be drawn to and fro， what is drawn off）．
＇تر tir－a．＇family，elan＇（sc．as drawn together，drawn away from others，advancing，moving，wandering together）．
طزقاز tir－qaz＇a bar，bolt＇（sc．as drawn to and fro）．
ز تركّا tir－k－taz＇a wandering about；robbery ；robber．＇
تركت tür－k，tir－k，is thus rendered in the latest Turkish dietionary，by Zenker：＂A Turk from Asia；a Turcoman， a Nomad（in contradistinction to تاحییت t⿳亠二口丿－jil＇the settler，the tradesman＇）；a vagabond；a soldier of the body－guard，a satellite；an uncivilized person，a clown．＂

The two words，Turcoman and Nomad，whieh seem here to be added as a sort of illustration，are in my opinion the lingual equivalent or literal translation of the word Turk． So mueh is unquestionable and indubitably eertain that the name Turk，or Tirk，or Toork is a verbal noun，derived from its monosyllabie root by the affix $k$ ，and that one of the fore－ mentioned verbs must be its base；but it is of no great moment to determine which partieular verb it is，they being all eognate in matter and meaning，so that every reader can be left free to judge for himself and to draw his own eonelu－ sion．This name，like Tertai；was originally and properly an appellative noun，and only in eourse of time passed into a proper name．After its etymology and original signification had beeome lost，the Chinese and the Mohammedans began to
account for the name in their own ways, the former (e.g. the historian Ouei-tchim in the seventh century) by affirming that it is derived from a helmet-shaped mountain, near which they originally lived, called in their own language Ton-kine ( $=$ Tur-kil) 'a helmet'; and the latter by attributing to Japhet a son named Turk, the ancestor of both Turks and Mongols. Thus the Arabs treated the name as if it were Arabic, and formed of it the plural $A$ trak 1, , by which they designate the different Turkish tribes. But by the side of the above etymological elucidation of the name, this sort of interpretations can only appear in the light of groundless guesses. The Turks, as is well known, are now ashamed of this name and call themselves Osmanlis or Ottomans, after their renowned ancestor Othman or Osman, whilst they apply the word Toork to an uncivilized person of their own race.

## III.-The Tartars and Turis in the light of THEIR NAME.

It results, then, from what precedes that in Tartar and Turk we have two names, kindred in origin and of essentially the same significatiou, which in a general way answer to the terms: Nomad, Turcoman, Bedouin;-only with perhaps this distinction, that Tartar, as a reduplication, expresses more particularly the repeated, ceaseless moving to and fro, the restless wandering about from place to place; and Turk, the rerbal noun, the energetic readiness to start, the untiring migratory disposition, the independent, bold and enterprising wanderer. Hence, as Tartar, so also Tu\% is used for courier, swift messenger ; and in poetical language the sun, e.g. is called 'the Turk of China' (because for the Tartars he begins his course in China), 'the Turk of the sky,' 'the Turk of noon,' etc.

It is by no means astonishing, but quite explicable, that the exact nature of the grammatical form and the true etymological import of these names should have become obscure and lost to the later generations, and now unfold itself only to
penetrating research; for the words themsel ves most probably do not date from the age in which Tartars and Turks first entered into known history, but from a much remoter time, when the occasion first arose to distinguish the roving Nomads from the agricultural settlers, or from the commercial citizens. Hence these names met with the same fate as other national names whose etymology had become lost, and which then passed into the domain of myths, and were regarded as patronymics. The ancient Mohammedan historians of the Arabs and Persians, seeking to imitate the records in the Book of Genesis, have recourse to mythical ancestors, in order to explain national names the origin and meaning of which they did not know. According to them, Japhet had two sons, Turk and Tchin, the respective ancestors of the Turks and Chinese ; and they are only not quite agreed as to which of the two brothers was the senior and which the junior. Again, Alindsha or Ilindsha Khan, a descendant of Turk in the fifth generation, and Ruler of Turkestan, had likewise two sons, Tartar and Mongol, from whom the Tartars and Mongols are descended. But that all this is nothing more than gratuitous attempts of Mussulman scholars to explain what they did not understand, is so selfevident that it ean only be wondered how Christian writers could be found credulous enough to record such fictions as facts; for this fabrication of history was even carried so far that they ascribed to Noah a son named Andalus, in order to invest the Spanish Andalusia with a proper Mohammedan halo.

On account both of the generality and affinity of the meaning of the words Tartar and Turk, it was not easy to keep the nations and tribes thus named ethnologieally quite distinet; and we eannot be surprised that the very same tribes appear sometimes as Tartars and sometimes as Turks and Tureomans. Only after these nations had settled down in definite localities, and their prinitive general appellations had passed into proper names, their promiseuous use could cease. But then the appellation had become as unsuitable as that of 'Normans' for those who settled in southern countries; aud
therefore it was really natural and reasonable for the Turks, when they began to settle down in Asia Minor and other parts, to drop their original name and adopt a new one from their distinguished chicf and ancestor Othman.

The etymological derivation and lingual import of the names Tartar and Turk, as they have now been set forth, derive a powerful confirmation from the fact that authors who had not the remotest idea thereof, yet described the main characteristies and distinguishing peculiarities of the tribes and nations which bear these names in a manner for which Nomad, Bedouin, wandering shepherd, is the concisest and fittest term. History presents these nations to us, from their first appearance, as roving hordes, confirmed wanderers, Nomads, Bedouins, Turcomans. Personal inclination and prevailing custom, inherited by the successive generations from their earliest ancestors, must, under the favourable influences of nature and soil, have gradually produced in these tribes a marked national character, a sort of national instinet, which dominated all their ideas and movements, shaped their entire history, and was expressed in the peculiarities of their whole national existence. Nomadic life, with its independence of the restrictive laws of civilization and culture, and with its unlimited domination over the rast. extent of countries through which it roams and which it has to guard against hostile encroachments, is especially adapted to produce an ardent love of liberty, an exaggerated appreciation of independence, an enterprising, indomitable courage, a manly, hardy fortitude, those useful and necessary attributes of the warrior,-and this is its noble feature. But, on the other hand, Nomadism, with its incessant depasturation, its perpetual draining of the land, which it does not make a real home, and from which it will always only take, without giving it anything in return,-is also a perfect school of greediness and selfishness, where they learn to regard the whole world as one vast pasturage for flocks, and the flocks as mere means for the gratification and enjoyment of the roaming Turcoman. The famous geographer, C. Ritter, has in this respect most strikingly and truly
characterized the Bedouins, by saying of them, that if they could, they would transform the entire habitable earth into one vast wilderness and therein find their Paradise.

Now whether it be owing to a certain natural compatibility, to a kind of mutual adaptation and attraction, or whether it be merely accidental: a matter of fact it is that the Nomad races of the Tartars and Turks have adopted a religion which took its origin and has its spiritual centre, its holy temple, in the land of the Bedouins,-the religion of Islam. Mohammedanism entirely corresponds to the fundamental traits of the national character of these races, just as if it had been expressly made for them. According to its ruling principle, the whole earth, with all it contains, exists only for Islamism and the Mussulmans, in order to be subjugated by them, and this not with the rightful weapons of the spirit, by doctrine and example, but with the carnal weapons of violence and war, and in order to be afterwards selfishly used and draincd by them, just as the Bedouin thinks of nothing else, but how he may always find sufficient pasture. These fundamental principles and leading views of Islam are not something unintended and accidental, but belong to it essentially and from the first. Already its founder, the Prophet-Emir Mohammed, seized and subjugated in this spirit all Arabia. After his conquest of the Jewish tribes of Khaibar, it was first intended to force them to emigrate and to leave all their possessions in the hands of the victors; but afterwards, apparently on their own proposal, a formal agreement was entered into-(which, however, was annulled by the Caliph Omar, because thenceforth none except Moslems were to live on the sacred soil of Arabia) according to which they were allowed to remain and to cultivate the land, on the condition that half the produce should be handed over to the conquerors, and the other half scrvo for their own sustenance. Thus it was a rule from the very first, sanctioned by the highest authority in Islam, that all the conquered lands should become the property of the Moslems, to which the former owners had lost all their claims and on which they could thenceforth be only tolerated for the advantage and utilization of tho professors of the new faith.

It can be casily imagined what a result the ingrafting of such a religion on hardy, greedy Nomad races must have produced. Their national peculiarity, their natural instinct and inbred labit, received the sanction of religion, the mighty impulse of a dircet mission from heavell and as by magic the leaders of flocks became commanders of armies, the independent hordes of Nomads irresistible hosts of warriors, who found in the subjugated nations, as it were, new pasturage of a richer and a more cnjoyable kind. Not flocks of sheep and cattle, but familics and tribes of men furnished now meat and milk and wool for these warrior shepherds. As a proof that the subjugated nations were really regarded in this light and systematically treated from a Nomadic stand-point, the one fact may suffice, that in Mohammedan states the nonMussulman subjects are called Rayas to the present day. For Raya in Lane's Arabic Dictionary: " Cattle pasturing, cattle kept, tended or pastured; especially cattle kcpt or pastured for the Sultan, and upon which arc his brands and marks." It is truc that theoretically it would be possible to attribute to the word Raya the meaning of 'subject' in general, as educated Turks frequently do in their conversation with Europeans, because in ancient times kings and rulers were often called shepherds; but practically this is not the case, and the actual division of the population of Turkey is that into Moslems and Rayas, so that a Mohammedan naturally says: "I am a Moslem and not a Raya." ${ }^{1}$

History tells us what terrible commotions and violent changes were produced in the world by the union of a religion like the Mohammedan with the Nomad spirit of Asiatic nations. Besides its victorious adrance eastward, where it completely swept away Christianity, then already professed by whole Tartar tribes, Mohammedanism made two supreme thrusts, two mighty onslaughts westward, for the purpose of transforming Christian Europe into another grazing ground for Mussulmans. These were, so to speak, two inverse Crusades,

[^55]with opposite ends. As the proper Crusades aimed at keeping the Cross (that sublime symbol of Christianity as a triumphant power, by purely spiritual means, notwithstanding apparent defeats) erect in the countries of the east where it had first been planted, so these Mussulman Crusades purposed to pull it down wherever it was found established throughout all the west. The first of these formidable onslaughts, proceeding from the Mohammedan Bedouinism of Arabia, passed over Northern Africa, overwhelmed the Pyrenean Peninsula, and was only successfully parried by the overmatehing vigour and manhood of the Franco-Germanic races, who, by those sanguinary battles in the heart of France, prevented the progress of the hot-blooded Asiatic hordes through Central Europe, and sent them back across the Pyrenees completely defeated. The second determined onset of Mohammedanism against the heart of Europe, sustained by Tartar-Turkish force, proceeded from the shores of the Bosphorus and spread death and desolation over the lands of the Danube as far as Vienna, where it also was stemmed by the superior national strength of Central Europe.

If these well-planned, determined attempts of conquest had succeeded, and if, as the cast, so also the west had been forced under the yoke of this politico-religious Nomadism of Istam, then the industrious Christian nations of Europe would have offered a new pasturage of sufficient richness to keep the Mussulman shepherds in ease and plenty for generations to come. But inasmuch as the truly human and truly divine spirit of Christianity, coupled with the love of liberty and the physical vigour of the nations of Europe, would not be trampled in the dust by mere rude force, and victorionsly naintained itsclf against the Mussulman onslaught, both of an Arabian Bedouinism and an Ottoman Turcomanism : nothing remained for the Islamic system of domination, but nolens rolens to rest content with its former grazing grounds, which in consequence it had now afresh and with inereasing thoroughness to depasture, so that more and more every pushing sapling, every sprouting blade of grass had to be razed, as soon as it appeared; and what thoso in power had at first
learned and practised with regard to the Rayas, was at last extended also to the subject Moslem population. The certain and unavoidable result of all this could bo nothing else than that complete general exhaustion of the entire world of Islam, which now lies patent before the eyes of all. But where, according to the laws of nature, Nomadism brings about its own end and renders itself impossible, there the place seems to be prepared for advantageously superseding it by the higher and more profitable state of agriculture.

Art. XII.-Notice of the Scholars who have Contributed to the Extension of our Knowledge of the Languages of Africa. By R. N. Cust, Honorary Secretary R.A.S.

In the Journal for 1879 I was permitted to insert a notice of the scholars who have contributed to the extension of our knowledge of the Languages of British India during the last thirty years; and upon the occasion of its being read at one of the Society's meetings, considerable interest was shown in the subject. I venture now to intrude upon the Society with a kindred notice upon those great scholars who have devoted their talents, and in many cases their lives, to enlarging our knowledge of the Languages of Africa.

To the Botanist the wild flower is of greater interest than the more beautiful development which is the result of culture. So to the Linguist, the unwritten forms of speech, caught alive as it were from the lips of uneducated savages, who are totally unaware of the wonderful organism which they are handling, supply deeper lessons than can be found in those languages whose spontancous development has been restricted by becoming the vehicle of a written literature. The continent of Africa, year by year, supplies ncw and wondrous forms, the examination of which will upset many favourite theorics, based upon the very limited phenomena supplied by the Arian and Scmitic families. I trust to be able in a few months to publish such an account of our existing knowledge of the Languages of Africa, accompanicd by a Language-Map, specially prepared from the latest data, and a Bibliographical Appendix showing where the language is spoken with reference to the Language-Map, to what group or family it may provisionally be assigned, and in what separate work, scrial, or gencral treatisc, information may at onee be obtained, which will enable an inquirer to know
what his predecessors have done, and start off rejoicing upon a course of further investigation. This generation will pass away long before we are in possession of anything approaching to a sufficient knowledge of the Languages of Africa.

My present object is to pass lightly over the whole subject, and to record with a loving hand names, which ought to be more known and honoured. It is very well for a University Professor to sit in his arm-chair, and talk wiscly about languages, not one of which he has cver heard pronounced. The individuals whose names I proposc to record have undergone perils and discomforts, and in many cases sacrificed their lives, in the attainment at first hand of the knowledge, which they have communicated to the learncd world. The feeling of astonishment, which welcomed the earlier revelations of unknown tongues, may have passed away, because it has been replaced by a conriction of the boundlcss stores of language-variety, which exists, and has existed for countless ages, indicating how utterly hopeless and visionary is the speculation as to the origin of Language, and how unfounded is the favourite theory of a Language altering that organic structure, the germs of which were, as it were, born with it. And two or three great Scholars have already been led by a consideration of the revealed phenomena to question the axiom of the impossibility of the existence of a Mixed Language, and to propound a new system of Classification based on the existence or nonexistence of Gender.

There are four classes of contributors to our knowledge.

1. In the first order as regards time, and in the lowest order as regards value, are those travellers, often unscientific, and always untrained, who hare recorded Vocabularies. We gratefully accepted half a century ago such crumbs of knowledge, and in many cases a language is still only represented by a Vocabulary; but care has been taken to indicate to modern explorers the particular classes of words which should be selected, and the proper mode of uniformly expressing the sounds. Many books of Vocabularies and short sentences, prepared in this way, are of the highest value.
II. In the second order come those who undertake to write a Grammar, a Dictionary, or a lengthy Grammatical Notice on one or more languages; such are not always trained scholars, and many have not the genius for that partieular work. Others have come to the work with excellent training; or have found themselves possessed intuitively of the faculty of grasping the real elements of the particular organism. We have two or three scores of such Grammars and Dictionaries, some of the highest merit, others which make the path ready for a skilled grammarian to follow. In all cases the work is honest, and done upon the spot, to be used at onee in schools, and by fellow-labourers, who will immediately bring the work to the test. This is a formidable eheck on any imposture, which might have passed current in Europe undetected, when the grammatical treatise is written to pass under the eyes of those only who are even more ignorant than the compiler.
III. In the third order come two or three great scholars, masters of the principles of Comparative Philology, under whose eyes these Grammars and Dictionaries, as well as the less valuable Vocabularies, pass. Here begins the process of inter-comparison of forms and methods, as well as of words, and the isolated work of many becomes a part of the great scheme of elassification. In this eategory must be included the compiler of such Vocabularies as the Polyglotta Africana.
IV. In the fourth order come the popularizers, or dishers up of the knowledge acquired by others in a palateable form suited to the taste of an unlearned public. In the form of Lecturcs and Essays the raw materials of hard-working and unknown scholars are boiled down and served out, and pass eurrent as the result of original inquiry, instead of being mere assimilations of the work of others. This renders neccssary an occasional reminder of the names of such original inquirers, which I now propose to make.

My attention has been more particularly called to this subject in the course of the preparation of my Sketch of the Languages of Africa. Such a book could not have been compiled thirty years ago, simply because the material had not
been worked ont by many scorcs of workmen, acting without any communication with caeh other. I drew attention to the amount of good work done by Contincutal, chiefly German, scholars, and recorded their names, in the $\Lambda$ frican Section of the Oriental Congress at Berlin last September, remarking how little would have been known had not German industry and acumen been available, to carry out the work commenced by English energy and resources.

English, French, Germans, Swiss, Norwegians, Swedes, Spaniards, Portuguesc, Italians, citizens of the United States of North America, and African negrocs, have contributed to this great work. Some have been scrvants of the English or French Colonial Governments, but by far the grater portion have been Christian Missionaries, for no other earthly eonsideration could have induecd men to live among the people, and acquire their language, but the highest motives of Bencrolence. Many have visited Africa for purposes of general science, or explory, and have madc contributions to knowledge, more or less perfect, but such have rarely attained to an aceurate knowledge of any language themselves, still less have they been able to prepare scientifie treatises. Lepsins, Almqvist, Munzinger, Reiniseh, and Fred. Muller are splendid exceptions. The Dutch, in spite of their long settlement in South Afriea, have not contributed one line to Linguistic Science, and their uncouth language, still further debased, has trodden out some of the primeval vehicles of speech of the indigenous inhabitants.

Of the one ancient language of Africa, which has died learing no lineal living descendant-the old Egyptian and Coptie-it would be impertinent in a paper like this to attempt a proper notice, and yet it would be incomplete not to notice that it is designedly omitted. The same remark applies to modern Arabic, which, with more or less purity, is spoken over such wide regions in Africa. Its elder sister. Phœenician, represented in Africa by numerous Inscriptions, is passed over. English, French, Dutch, and Portuguese, are sometimes an additional, sometimes the sole, vehicle of speech of large native communities, but require no notice
here. Our remarks are restricted to the work done in indigenous modern Vernaculars; and as an instance of the slight appreciation hitherto extended to this work, it may be mentioned, that in two celebrated series of Lectures on Language, and the Science of Language, in its widest sense, by a learned German and American Professor, a few lines are deemed sufficient to illustrate the marvellous phenomena of African languages, and the praiseworthy labours of African scholars.

It may be convenient for our purpose to divide Africa north of the Equator into two regions, stretching one north of the other east to west nearly across the continent ; the territory south of the Equator forms a third region; and in each region there are two entirely distinct groups of language, making six in all for the whole of Africa.

The most northerly region comprises the Semitic and Hamitic groups. In the Ethiopic subdivision of the Semitic we must note the grammar and dictionary of Ludolf, dating as far back as 1698 A.D. ; Dillmann's grammar and dictionary, dated 1857-62, of the old Ethiopic or Geez; Prætorius's grammar; Massaia's grammar ; Isenburgh's gramınar of the Amharic. Abbadie and Isenburgh have contributed dictionaries. There exist also learned contributions by Beke, Munzinger, Gesenius, Renan, Sapeto, Schrader, and Krapf. Of the sister-language, the Tigre, we have a grammar by Pretorius, vocabularies by Beurmann and Munzinger. Of the less well-known Harári, we have grammatical notices by F. Muller, Mallet, Burton, and Prætorius.

Passing to the Hamitic group, and the Libyan subgroup, we come in contact with the work of the French scholars, to whom the conquest of Algeria gave great opportunities. The Berber language is the representative of the old Mauritanian and Numidian in its numerous dialects. To $D_{11}$ Ponceau, Faidherbe, Halevy, Venture de Paradis, F. W. Newman, W. Hodgson, De Slane, and Dclaporte, we are indebted for grammars, vocabularies, and grammatical notices.

The well-known dialect of the Kabyle, with its subdialects of Showiah and Zowaiah, is illustrated by the grammar of Hanoteau, the dictionary of Brossclard and

Jaubert; of Crcusat, and the grammatical notices of F. Newman, Sierakowsky, and W. Hodgson. Of the dialect of the Towarik Nomads, known as the Tamáshek, we have grammars by Manoteau and Freeman Stanhope. Of the dialect spoken in Morocco, known as the Shelluh, we have grammatical notices, rocabularies, and texts by some of the abore-mentioned scholars, as well as by Ball, Jackson, and Basset. Of the Zenága dialcet, south of the Sahára, on the Sencgal frontier, we have a grammatical notice by Faidherbe. Far away to the east, on the confines of Egypt, the kindred language of Siwah, in the Oasis of Ammon, is revenled to us by Minutoli.

On turning to the Ethiopic subgroup of the Mamitic group, I can point with satisfaction to a grammar of the Somáli language by Hunter, a great advance upon the grammatical notice by Rigby. Of the Galla language Tutschek has published a grammar and dictionary, and another is attributed to Massaia ; Lottner, Krapf, Schınidt, and F. Newman have also contributed vocabularies or grammatical notices. Of the Beja-Bishári language, this year has produced a most complete grammar by Almqvist, of Upsála, supplementing the grammatical notices by Lepsius, Munzinger, Fred. Muller, and Halevy, and the vocabularies collected by Seetzen and other travellers. Of the Falasha, or language of the Abyssinian Jews, we have a grammatical notice by Halevy; and of the Bogos Reinisch has published a grammatical notice and a text, and promises a grammar and a translation of a gospel. Of the Dankali, Reinisch promises a grammar and a collection of texts; Isenburgh, many years ago, published a rocabulary. Of the Agau, Waldmeir has published a rocabulary, and Halery a grammatical notice. Of the Barea language Reinisch has published a grammar. Reinisch has also published a grammatical notice of the Saho, Irob Saho, and Kunáma languages in the German language; and Englund, a Swedish missionary, has published one of the last-named in the Swedish language. Krapf, Munzinger, Halery, Abbadie, and Beke, have also contributed to our knowledge of the other less well-known languages, or dialects of lan-
guages, of this group, towards whieh a great deal more labour must be devoted.

The second, or eentral region of Afriea, is oceupied by two groups of languages, totally distinet from each other, and only assoeiated for geographical convenience: the NubaFulah and the Negro.

In the Nuba-Fulah there are two well-defined subgroups, the Nubian and the Fulah. In the Nubian subgroup Lepsius has illustrated the Nubian or Barabra language with his Monumental Grammar, a voeabulary, translation of a gospel, and a disquisition on the languages of Afriea generally. Reiniseh has also published a grammar. Nerueci, an Italian, has published a dictionary by a Roman Catholie missionary of the seventeenth eentury, found in manuscript. In the case of an unwritten language, such peeps at the word-store used two centuries ago are most valuable, as marking the degree of fluetuation in the ordinary terms of daily life. Brugsch Bey has earried the language baek, and worked out a comparison with the old Egyptian. Of the Tumale, one of the languages of Kordofan, Tutsehek has supplied a grammatical notice. Of the Masai, Erhardt has contributed a voeabulary, and Krapf has done the same for the Kwafi. To Schweinfurth we are indebted for our seant knowledge of the Monbutto, Niam-Niam, Kredi, Golo; and Petheriek, Wilson, Long, Marno, and Ruppell have eontributed to the still fainter idea that we ean form of other languages inclistinetly heard of. Of the Shangalla we know more from the writings of the Italian Beltrame, Beke, Marno, and Malevy.

In the Fulah subgroup Reichhardt and Faidherbe haro supplied grammars of the only language, of which there are several marked dialects.

The Negro group, on the other hand, comprises scores of languages, perhaps liundreds, thrown together merely for the purpose of convenience of treatment, all other attempts at elassification in the present stato of knowledge being hopeless. This may be roughly divided in to three geographieal subgroups:
I. Western Negroland along the Atlantic shore, viz. Senegambia and the Guinea Coast.
II. Central Negroland, viz. the Basin of the Niger and Lake Tchad.
III. Upper basin of the Nile.

In the first subgroup, under the influence of missionary zeal, many great scholars have contributed philological works of the highest interest, and the most solid value.
Mandingo . . . . . Maebriar . . . Grammar.
Scrawale . . . . . Failherbe
Vei . . .

Tocabularies exist of other languages.
In the second subgroup, we are indebted to scholars, who either are themselves natives, or have gleaned their knowledge from natives, or have made use of materials collected by others, or to great travellers, who have found time in the midst of their great enterprizes to increase our knowledge.
Ibo

Schön
Crowther
Goldie
Crowther . . . Grammar.

Crowther, in his Diaries of Voyages up the Niger, has given us vocabularies and grammatical notices of a dozen additional languages, the existence of which cannot be doubted, but the illustration of which will be the work of the next generation. Passing on to Lake Tchad, we have Kanúri or Bornu Koelle. . . . Grammar.

Norris . . . . Grammatical Notice.
Baghirmi . . Nachtigall . . (German) do.
Tibbu . . . . Nachtigall . . (do.) do.
," . . . . Barth . . . . do.
Budduma . . Nachtigall . . (German) do.
,, . . . Barth . . . . do.
Logone . . . Barth . . . . do.
Wandala . . . Barth . . . . do.
Maba . . . . Barth . . . . do.
Sara . . . . Nachtigall . . (German) do.
Badi Bacle . . Nachtigall . . (do.) do.
Kuka Lisi . . Nachtigall . . (do.) do.
In the third subgroup we know little.
Dinka . . . Mitterreutzner . (German) Grammar.
", . . . . Beltrame . . . (Italian) Grammar.
", . . . . Schweinfurth
Shilluk . (German) Grammatieal Notice.
Bari . . . . Schweinfurth . (do.) Grammatical Notice.
" . . . . F. Mullerer . . (do.) Grammar.
Bongo . . . . Schweinfurth . (do.) Grammar.
Grammatieal Notice.

Other first-hand investigators, Long, Marno, Von Heughlin, and Ruppell, have contributed to our scant knowledge of the languages of this region.

The long roll-call of names may to some minds suggest no thoughts, but to me it suggests many. Many of the gallant soldiers of scicnce fell in the couflict with the pestilential climate; more than once painfully collected stores of linguistic kuowledge have perished utterly in the burning of a camp, the sinking of a boat, the loss of a trunk or box. Many of these languages have been spoken by gencrations of men for centuries, but until the present century they have left as little trace as the humming of the insects, and the chirping of the birds. If we are to believe credible evidence, languages
have died out, or been crowded out, and new languages, new dialcets, have come into existence. Some of these wild languages evidence a most intricate and elaborate organism, which, if they prove nothing else, at least point to the existence in the brains of the speaker of a logical power of reasoning. In some idioms, spoken by apparently similar people, and in fact in eases of bilingual individuals, spoken by the same people, there exists a totally distinet and opposite order of conceptions. What a priceless service have these honest and intelligent collcetors rendered to seience? Onc remarkable feature is admitted by all, that, though Agglutination may be the prevailing type, any notion of affinity between particular groups of languages spoken by negroes, ethnically identical, may be set aside.

South of the Equator we enter into a world of totally distinet phenomena. There are two groups, the Bantu and Hottentot-Bushınan. The latter oceupies a comparatively small inelosure; the former are the offshoots of one common stock, the children of one common mother. Year by year new tribes have come into view, and new languages into the region of hearing, and as yet but half the field has been explored. For convenience of description, I have devised the following geographical distribution, so as to meet present requirements, and provide for future expansion.

Southern Branch, below the tropic of Capricorn.
Eastern Branch, the East Coast from the Victoria Nyanza to the same tropic.
Western Branch, from the Cameroon Mountains to the same tropie.
In each branch there are three sub-branches, crowded with languages.

The scholars of the Southern Branch are numerous, and have pretty well exhausted their subject. There are three great dominant languages: Kafir, or Xósa, Zulu, and Chuána. It must be remembered that this region is in the Temperate Zone, and without derogating from the merit of the scholars, it must be admitted that their reputation has not been purchased at the tremendous sacrifices
to which their contemporaries have been exposed in the Equatorial regions.

| Zulu | . | . | . | . | Schreudcr |
| :---: | :---: | :---: | :---: | :---: | :---: | . . (Norwegian) Grammar.

Many of these are philological works, which future generations may improve, but scarcely surpass.

The circumstances of the Eastern Branch of the Bantu family are very different. Within this region there have been no great missionary Protestant settlements; a heavy shame lies upon the Portuguese Government, that for more than three centuries they had settlements, and Roman Catholic missions, from Cape Delgado to Lorenzo Marques, and far up the Zambesi basin to Tete and Zumbo; that they should have been able to send at rare intervals expeditions across the Continent to their scttlements on the Western Coast; that on the Western Coast they have left linguistic monuments, of a certain amount of valuc, and yet on the Eastern Coast from the Equator downwards they have contributed nothing towards the knowledge of the people of the intcrior. Within the last twenty years this field has been thrown open by the enterprize of Livingstonc, Burton, Speke and Stanley to Protestant missions, and the result is a crop of small linguistic cfforts ; in only onc language do such efforts reach the dignity of a grammar and dictionary.
Swahíli . . . . . . Stecre . . . . Grammar.
Krapf . . . . Dictionary, in the press.
Krapf . . . . Grammar.


All these are but the budding promises of a future harrest, as from every quarter the report reaches me of translations of the Scriptures preparing, and grammatical notices being compiled.

In the Western Branch we come face to face with a totally distinct state of affairs. Three hundred years ago the Portuguese authority and the Roman Catholic religion were established in the great kingdom of Kongo and the province of Angola, which last remains as a Portuguese province to this day. Brusciottus di Vetralla published at Rome a grammar of the Kongoese in the Latin language in 1699 A.D. I was able to examine a copy of this work at the

Angeliea Library at Rome last Oetober; most probably no one had asked for it for a century. My inspection led to iny friend, Mr. Grattan Guinness, looking for it in the British Museum Library, finding it, having a copy taken of it, translating it, and publishing it. Thus Brusciottus has obtained a new life, and will become the seed-plot of new grammars. Desirous of leaving no stone unturned to discover the works of the Jesuit missionaries, I called on Mr. Desborough Cooley, a veteran author on Afriean subjects, who had elosely examined the Portuguese authors. I found him at the age of 87 , stone deaf, but ready to help me: he produced a box full of manuseripts, written by himself with wonderful clearness, which represented the materials for works which he once intended to publish. Among them was a voluminous dietionary of Kongo and French, copied as far as letter E; upon inquiry where the original was, I was referred to the Grenville Library of the British Museum, and there Mr. Grattan Guinness found a manuseript volume containing ten thousand words, which is being at once copied, and printed.

In the neighbouring province of Angola, the language spoken is called Bunda; in the year 1697, Pedro de Dias published a grammar in this language, copies of which are in existence. In 1804 the Capuehin Cannecuttim published a grammar and dietionary in the Portuguese language. This is the extent to which seience lias to thank the Portuguese lay and clerical authorities during the many centuries of their jealous occupation of the West Coast. Within the last forty years, since English Protestant and Freneh Catholic missionaries have established themselves, the following books have appeared :-
Herero (Damaraland) . Hahn . . . (German) Grammar.
" . . . . . . Kolbe . . . . (dlo.) Dictionary, in
the press.


In this Region also cach year will bring additional languages to onr knowledge from the exploration of the German African Society and the labours of the Livingstone, English Baptist and Amcrican Missionary Societies.

In the region south of the Equator there is a second group of languages, the Hottentot-Bushman, comprising two languages, totally distinct from each other, that spoken by the Hottentots, and that spoken by the Bushmen. Of the four Hottentot dialects, that of the Namáqua is the only survivor ; the others seem to have succumbed to Dutch. In the Namáqua or Nama we have a grammar by Hahn (German), Tindall and Wallman (German), a grammatical notice by Charency (French), besides vocabularies and notices included in other works. The Bushman language is still only imperfectly illustrated by grammatical notices by Hahn and others. In this group must be included the Dwarf or Pigmy tribes found in different parts of Equatorial Africa, of one description of which only we hare certain grammatical notices in the study by Beltrame of the Akka language in Italian.

Independently of the particular works devoted to one language, many most valuable works have been published in a collective form, containing information sometimes at second-hand, sometimes at first-hand; or at least mritten by persons who have sojourned a certain time in Africa. Such authors are Bleek, Beke, Munzinger, Halery, Koelle, Abbadie, Lepsius, Fredk. Muller, Lottner, Reinisch, Barth,

Steinthal, Sehweinfurth, Nachtigall, Bastian, Baikie, and many others. Thanks are also due to those who have conscientiously worked at second-hand, with an entire ignorance of any one of the languages spoken ; such as Latham, Hovelaeque, Julg, Balbi, and the authors of Mithridates, and the Dictionary of Languages. In most cases one author has repeated the other, oftentimes without notice of the original source of information, forgetting that the entry in such compilations depends upon the authority quoted for its value. The real motive power has been supplied by the Missionary Societies, or the British and Foreign Bible Society. Nothing but Christian zeal would have induced scholars to spend long periods, at the risk of their lives, among a most uncongenial people in a detestable climate. When the utility of Foreign Christian Missions is questioned, let scholars say a good word in their favour. The majority of the languages alluded to have no literature, and had never been reduced to writing. There was therefore no question of learning an existing form of script. At the request of some of the Missionary Societies, Lepsius devised a Standard Alphabet; but in dealing with German seholars (and the majority of Bible translators are German) the maxim applies-Quot hominum, tot sententiarum ; the consequence is, that there is a plurality of the adaptation of the Roman alphabets, and the use of a common alphabct is as distant as ever.

It remains to notice that in the Library of the Royal Asiatic Society is a promising collection of African philologieal works, the nueleus of which was supplied by Sir Bartle Frere, when Governor of the Cape, through the kind offices of Miss Lloyd, sister-in-law of the lamented Dr. Bleek. In the Library of the Royal Geographical Socicty are some very ehoice African philological books. In the Library of the India Office are some $\Lambda$ friean books relating to the East Coast. The Chureh Missionary Society, the Wesleyan Missionary Society, the British and Foreign Bible Society, the Christian Knowledge Society, in their libraries or depôts, possess works which are to be obtained nowhere clse. Those who require
more than the above librarics supply, must purchase, as I have had to do. From the stores of Trübner, Quaritch, and Willians \& Norgate, in London ; of Maisonneuve at Paris, and of Kohler at Lcipzig; by applications to friends in Portugal, Spain, France, Switzerland, Italy, Germany, Austria, the Unitcd States, and every part of Africa, the books required have gradually come in, and many a kind present has to be thankfully acknowledged. Where a printed copy could not be obtained, I have received copy of the whole work in manuscript. 'The same trouble will not occur again in hunting out existing works, as new books, or omitted books, will drop into their right places in the Bibliograplical Appendix which will accompany the fortheoming "Languages of $A$ frica."

Only a small portion of the work that has to be done has as yet been accomplished. Another generation must die out before our knowledge of the languages of Africa reaches the level of our knowledge of the languages of Asia, and it is notorious that even that is far from completc. However, till we have approached ncarer to an idea of the number and nature of languages actually spoken at this moment, it is mere waste of time to speculate on the origin of Language, or to spin idle cobwebs about the cxistence of a primeval form of speech. Let that rest, until we have more reliable data.

It may be objected that Africa is not part of Asia, and that this subject lies outside the orbit of the Royal Asiatic Society; but papers relating to African languages have been from time to time admitted into our Journal, the earliest bcing in Vol. III. Old Series, in the year 1835. When a Royal African Society comes into existence, the duty, now undertaken in the interests of the neglected and troddendown Continent, will be readily surrendered to its proper representatives. At any rate, I am only treading in the steps of my distinguished predecessor, Edwin Norris, of whom it may be said:

- hic est, quem non capit Africa, Mauro Percussa Oceano, Niloque admota tepenti:Rursus ad ※thiopum populos, aliosque elephantos.

Art. XIII.-Grammatical Sketch of the Haúsa Language. By the Rev. J. F. Sснön, F.R.G.S.; of the Church Missionary Society, and Chaplain of Melville Hospital, Chatham.

The word consists of three syllables, and must not be tortured into Housa as is frequently done. Ha-ou-sa conveys the correct pronunciation. The meaning of the word itself is not quite certain. From two expressions in the writer's collection it may be inferred that it means 'language.' The first is, "He speaks another hu-u-sa," that is, another language ; and the second, in answer to the question, "Do many people speak Haúsa?" The reply given was, "How can they be Haúsa unless they speak Haúsa ?" Barth also admits that it means 'language,' although it is not confined to that meaning. The word itself was probably unknown to Leo Africanus, who says that Zāria Kano and Katsena speak the language of Gober, instead of Haúsa, Gober being at Leo's time the most prominent and noblc among the provinces of the North. Whether the name Ása given to the northern side of "the great river" in contrast to Gurma on the southern side, has anything to do with Haúsa, is left undecided by Barth. Sultan Bello derives the Haúsa from a Bornu slave, named Bāwu. This Bāwu has a real historical existence in the traditions of the Haúsa people, though not as a slave, the IIaúsa word for 'slave' being Bäua not Bãuu, a fact of which Sultan Bello could not have been ignorant; and besides this, it must be argued that, if the Hausa derived their origin from the Bornu or Kanúri, there would exist a greater similarity between these two languages than is found to be the case. Both languages have a few words in common, but the grammars are most distinct.

The nation speaking Haúsa may be said in a general
way to inhabit the regions between the Niger and Lake Tshad. The River Bénuwé, uniting with the Niger at Lokojah, is there called Tshāda by the Haúsa. Barth questions the correctness of this; but the writer has heard the word Tshüda, and rüa baki, i.e. 'black water,' applied to the Benuwe at the confluence of that river, and the Niger there called Kuōra, as also fari rūa, 'white water.' Dr. Barth's discovery of the Bénuwé has set aside the conjecture that it issued from Lake Tshad. From the great extent of country it must be inferred that the Haúsa language is spoken by a great number of persons. The Haúsa themselves speak of seven provinces "Haúsa bokoi." The above-mentioned Bāwu who figures in Haúsa traditions is regarded as the founder of most of these states; and is said to have been the son of Karbágarí. Karbágarí, signifying the taking of a town, would indicate a person of character and power, and not that of a slave. The town referred to as being taken may have been Biram, situated between Kano and Khadega, often called Biram "ta ghabbes," i.e. 'of the east,' to distinguish it from another town of the same name more to the west. Bāru, the son of Karbágarí, is said to have married a woman of the Berber nation, by whom he had seven sons, who are regarded as the founders and rulers of the Haúsa bokoi, i.e. the seven Haúsa provinces. Among the Haúsa themselves disputes are heard on this subject, as to which constitute the real seven provinces, and another seren states set up a counter-claim to the name, but are called by others bánza bokoi, which means 'bastard or illegitimate bokoí,' 'seven.' The legitimate seven are-

1. Biram.
2. Daúra.
3. Gober, also pronounced Gobir.
4. Kano. The inhabitants of the town 30,000 , evidently under the mark; the whole population of the province Rano, south-west from Kano, still a considerable town. From other provinces we have no statistics.
5. Rano.
6. Zegzeg.
7. Katsena. The town had onee a population of at least 100,000 ; at present about 8,000 ; the whole population of the province may be said to be about 300,000 . At Katsena the Haúsa language has attained the greatest riehness in form and the most refined pronuneiation, and has been seleeted by us as the standard, notwithstanding Barth's assertion to the eontrary.
The seven other provinces whieh are called bānza bokoi, i.e. 'bastard or illegitimate,' are-Zanfara, Kebbi (a provinee between the two empires of Gōndo and Sokotu), Nupe or Nuff, Gwari and Yauri, Yoriba or Yoruba, and Korōrofo.
To these we must add the provinee of Mosi, to the north of the kingdom of Ashanti, and tributary to the same, where Haúsa is likewise spoken. The eapital of the province is ealled Gonsha. An extensive trade of the favourite Gōro, that is, Kola-nut, is earried on with the Haúsa country and Gonsha. There are many Haúsa slaves in Ashanti, who are to this day exposed for sale at Salaga. Haúsa fought in the last war with Ashanti on both sides ; on our side sueh as were enlisted by Sir John Glover at Lagos, and on the Ashanti side Haúsa slaves, ehiefly Mosi.
In all these provinees it is a fact that Haúsa is extensively spoken, though it is not the language of the original inhabitants of those eountries. The mention of all these names shows how widely the language has spread. The slave trade has been the means of bringing Haúsa people to Tunis, as Barth speaks of meeting with Haúsa slaves in that place; and in Tripoli there is a eolony of 2,500 or 3,000 Haúsa from every provinee of the interior, and Mr. Krause is prosecuting his Haúsa, besides other languages, under most favourable cireumstanees there; and from the deseription of Dorogu, one of the late Dr. Barth's servants, I learned that Haúsa seamen, whether slaves or freemen, served on the steamer in whieh he embarked at Tripoli for Malta, who also informed him that there were many IIaúsa at Constantinople and in Egypt. It is, moreover, not merely owing to the dispersion of Haúsa pcople
into so many parts of Africa that the language is known; another circumstance of no small inportance nust be mentioned, namely, the adoption and acquisition of it by individuals of other nations. I mysclf have met in Africa Fulani, Bornu, Yoriba, Nupe, and others, who spoke Haúsa flucntly; and from Mr. Krause at Tripoli I learn that he has frequent opportunities of conversing with learned Fulani and other pilgrims coming from Mekka, in Haúsa. This circumstance may in a great measure be attributed to the beauty, simplicity, and casy pronunciation of the language itself, as well as the, as it were, ubiquity of Haúsa pcoplo. Hence also Barth, on being asked in my presence, as to which of the various languages spoken in the regions in which be travelled he considered the most useful for travellers to acquire, replied, "The Haúsa." The Haúsa is not a written language; though I have often hcard the Haúsa asscrt that they had books in the interior, I have never been able to obtain a sight of any. Some papers were shown me, but they were in Arabic, not in the Haúsa; and the late Dr. Barth has been unsuccessful in his endeavours to discover any writings. But notwithstanding our failures, it is not impossible that discoveries may still be made. And this hope is encouraged by a statement of Mr. Krause, who was informed by African travellers that they possessed books in the Haúsa language, as well as in the Fulde, and that a son of King Bello, at Sokotu, had written a grammar of the latter. It is very desirable that Mr. Krause should be enabled and assisted to make every inquiry, and to obtain, if possible, copies of such manuscripts, if really in existence. Attempts have been made by Europeans to write Fulde and Haúsa, who either copied in Arabic characters, or dictated to Africans, as portions of the Gospels, or of some stories and proverbs, but of any independent effort by natives I have no personal knowledge.

When the writer commenced the study and reduction of the Haúsa language, he had to begin at the very beginning. A small, but notwithstanding valuable Vocabulary by Oldfield, a few words in Clapperton's Travels,
were all he met with as then in existence. Since that he has had the satisfaction of consulting the labours of the late Drs. Barth and Baikie. The former had the great advantage of travelling the length and breadth of the Haúsa country, and of bcing surrounded with Haúsa servants and others speaking the language, and has given us the results of his inquiries in his travels and linguistic works. Dr. Baikie, for several years British Consul at Lokojah, has written translations of portions of the Holy Scriptures and the Book of Common Prayer in Haúsa. His contribution to our Haúsa literature consists of no less than about 1,400 closely-written 4to. pages. I am indebted to him for many new words, for which I give him credit in the Dictionary. Nothing has been published of all Baikie's labours, except the Psalms, by the British and Foreign Bible Society.

The language, as far as published, is published in the Roman, or rather in the Italian character, and the orthography adopted is that of Professor Lepsius's Standard Alphabet, and only about seven chapters of the Gospel of St. John are accompanied by a transcription in the Arabic character, kindly prepared by Archdeacon Henry Johnson. It was not considered desirable to print more in that form at present, but to wait until an alphabet can be furnished which meets all the difficulties of the case. Our translations, and other books in the European dress, are now used in the Niger at Lokojah and Kippo Hill or Egán, and are taught in schools, and the Gospel is preached in the Haúsa language in those places, and it is gratifying to know that Europcan and African mercantile agents make good use of those books. In stations where the Arabic character is but little known this may be done, still there can be no doubt that the language ought also to be in the Arabic character, with some modification of the alphabet, especially in the vowels, to adapt it to the Hańsa. If all these things were done, I am coufident that we should best consult and promote the interest of the Hausa nation in the interior of Africa, as well as the progress of science anl the introduction of art.

The Haúsa, it is true, have to some extent adopted Mahomedanism, the religion of their conquerors, but are neither attached to the one nor to the other, and would gladly shake off the yoke of both.

Coming now to speak of the character and nature of the Hausa language itself, we would first of all observe that the question, as to whether it belonged to the class of Mamitic or the purely " Negro" elass of languages, is not yet decided. Professor Lepsius (Nubische Grammatik) seems inelined to number it among the latter, not considering the faet that it is a gender language, in perfeet larmony in that respect with Semitie languages, of sufficient importance to assign it another position than that of the Negro languages by which it is surrounded. Dr. Frederic Müller, on the other hand, is still in favour of classifying it among the Hamitic languages. And he argues from the identity of the pronominal stems, from the suffixes and affixes (which will soon come under consideration) employed in the derivation of words, and the passive form in $u$, etc., $o$. No notice is taken of the numerous coineidences which the Lexicon supplies, and whieh eannot fail to refer to previous intercourse with Semitic nations, wheresoever and whensoever that intercourse may have taken place. The Arabie element is very prominently manifested in the importation of words. I would especially refer to such as are embodied in the language with the al or el Arabic article, unconsciously, as though it formed but one word, as alkama, alliorana, alkaúeli, almāz̄iri, alkāmura, aldz̄āna, and many more. We will now mention certain words and expressions in the Haúsa and Hebrew languages, and then leare it to others to account for their existence in the language. They are-
asabe, asabu, azuba and asaba snare, danger.'
azumi 디s 'fasting.'


alfadara פִרְדָה 'mule.'
annabi בָבִ 'prophet.'
annabia פְבִיאָה 'prophetcss.'

arbain ロ'בָּ עַ 'forty.'
baria פָּרָה 'mouse.'
burumta בָּ ${ }^{\text {IT }}$ 'to spin, to twine.'
batta בָטָ

bérka בָרך 'blessing.'

$d a$ Egyptian = dā Haúsa 'son.'

dakka דָקַק 'tread, trample, thrash.'
dalma בְרִילק 'lead.'
däši
doppa, pl. dopobi דרֹ pl. דִּבִּים 'bear.'
dubbara and dabbara ?ִּבּ ' to plot against.'
gafèra כָּרָ ${ }^{\text {כּ }}$ 'forgive, cxcuse.'
gawa עไג 'corpse, expire.'
gona 1]' 'farm, garden.'
guzu บึ่ 'loins, trunk.'
halal חדָל 'ccremoniously clean, lawful.'
haram $\boldsymbol{T}_{-1}$ 'ccremoniously unclcan, unlawful.'
hakumtši and hakumta הִדִ
' hinder, restrain.'

isirin עִּשִׁרים 'twenty.'
iko חַּוֹֹ 'strength, power.'

kadán and katān ${ }^{\circ}{ }_{-}^{0} p_{T}$ 'little, few.'

kaza da kaza Mכּ Mכּ Mo and so，thus and thus．＇
karatu N゙ファ\％＇to read．＇
káma iŋコּ＇like，like as．＇
Kamani＇כָּמוֹנִ＇as I，like me．＇
kamnka
kamamu ：כָּכָּ＇
kirā Nךָ ${ }^{2}$＇to eall．＇


like Pק＿${ }_{T}$＇to lick．＇

makaranta N＂ק？＇sehool，assembly，conversation．＇
makogoro גְּ
malaiki FNTゆ＇angel．＇

maraki עָּרֶּ＇ealf．＇
metin $\mathfrak{Y}$ תַN゙M＇two hundred．＇
mi＇${ }^{9}$＇who，what．＇
 i．e．mortal．
mutu מוּת＇to die．＇
nade עָּטָּ＇to roll up，wrap up．＇
o3a and uba בN＇father．＇
rage，ragexa，ragna בָּ ${ }_{-\tau}$＇take away，diminish．＇
rami שִּעָרָה＇hole．＇
rana，ra in Egyptian，＇sun．＇
rimoni ¡！̣า＇pomegranate．＇



sarkli and serki نִּ＇king，ehief．＇

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su, Ancient Egyptian, also Haúsa, 'they.'
šaida שָׁñ 'witness.'
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tamánin \({ }^{\text {un }}\) ' \({ }^{\prime}\) 'eighty.'
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ya " ' he.'
yao bi' 'to-day.'
yama \(\square_{T}\) 'sea, west.'
yahude and yafude 'ד:TT: 'Jew.'
zuba בili 'issue, flow, flowing.'
žefa \(\mathrm{J}^{\mathrm{J}} \underset{\mathrm{T}}{ }\) ' 'cast out, throw out, at.
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We come now to the language itself.
The general character of the Haüsa language.-We may be permitted to quote the estimate formed as to the sounds of the Haúsa by Dr. Frederic Müller, Grundriss der Sprachwissenschaft, I. Band, II. Abthcilung; Vienna, 1877: "In reference to sound, the Haúsa shows a rare symmetry of sound, and consequently a great harmony of the forms of words. There are few languages which could compare with it, much less surpass it." We exhibit the sounds in the following Table, and in the form generally adopted by Prof. R. Lepsius in the Standard Alphabet. The dialect chosen as the Standard is that of Katsena.

## Vowels.

I. Simple vowels : $a, \bar{u} ; e, \check{e}, \bar{e} ; i, \imath, \bar{\imath} ; 0, \bar{o}, \underline{\varrho} ; u, u \bar{u}, \bar{u}$. II. Compound vowels (diphthongs) : ui, ci, au, oi.
III. Consonants, simple and compound: $k u, g, g b, \dot{n} ; 1 \longdiv { s }$, $d s, d z, \check{s}, z ; t s, d z, y ; t, d, s, z, r, l, n ; p, b, f, w ; m$.

## The Noun.

Nouns are divided into Proper and Common, and Primitive and Derivative nouns. Proper mouns are the names of persons or countries, rivers, etc.: Adam, Yaruba, lícira.

Common nouns denote a class of objeets, as mutum, ctōki, cluši; and Primitive nouns, or such whose origin cannot be traced any further, as rüa, sinäria, zímna. Derivative nouns are such as are formed by prefixes or suffixes to the root or stem, and can be traced to their original source or primary parts, as mai-göna, compounded of mai and gōma; ma-wámni, compound of $m a$ and zámni.

1. Abstract substantives are derived from concrete nouns by means of the suffix $t s i m$. and $t e f$., which are frequently preceded by $n$, as $n-t s i, n-t a$, and the final vowel of the noun is changed or cjected.

## Examples.

amnabá-n-tsi ' prophecy,' from amnabi 'prophet'; bāra-n-tsi and $b \bar{a} r a-n-t a$, from $b a \bar{r} \cdot a$ 'serve' and 'servant'; bāıco-n-tši 'slavery', from bāua 'slave'; so likewise baú-ť̌i, baú-ta; makóf-tsi m. and makóf-ta' 'blindness'; makífta ba acoóržke-ta ba dla māgani sai da īlio-n 'Alla'; bāko-n-tši, yi-n bäko-n-tsi 'alienship, to be in the condition of an alien'; bambám-tši m. bambam-ta f. 'difference, distinction'; bār'ǐió-u-tssi' 'jesting, gesticulation'; yara-n-tši 'boyhood'; yari-n-ta 'girlhood '; yāıca-n-tši, m. yáuca-n-ta 'multitudinous.' Add to these words framed with ka, as: bärantá-ka 'servitude, service'; bākontá-ka 'an entertainment given to strangers'; yäbontí-ka ' witchery, sorcery'; bäıcantá-ka 'servitude, service'; šēgantá-ka 'iâleness'; makafanta-ka 'blindness'; mäarfantá-ka 'bravery'; mallaman-tši 'priesthood,' from mallam 'priest'; hausá-n-ť̌i 'what belongs to the Haúsa nation'; fula-n-tssi 'what belongs to the Fulde nation'; arcicá-tssi 'northward, northern'; gabá-tşi' eastward, eastern'; kusúu-tši 'southward, southern'; yamá-tš̌i 'westward, western.'
2. Words ending in a and wa form also abstracts with other changes, as: diaú-ť̌i or diyaútši 'liberty,' from $d \bar{u} \mathrm{~m}$. and clia f. 'free-born, free'; baútši and baú-ta 'slavery,' from bärca'slave.'
3. The prefix $m a(\Sigma)$ forms nomina loci and instrumenti, as well as nomina agentis. a) The suffix $t \stackrel{s}{i} i$ being retained: mahaukà-tši m. mahaúkašia f. 'lunatie, foolish person, simple-
ton'; makóf-tşi m. makofta f. 'neighbour, neighbourhood'; makäri m. makära f. 'end,' from kāre 'to finish '; mafarikatši m. mafarikatšia f. 'hypocrisy'; magudáutši 'slave' (?) ; makēri m. makēria f. 'blacksmith'; mafaú-tši'slaughtering' and 'place of slaughtering,' from fäcta 'to slaughter.' b) The suffix tši is dropped: madūbi 'glass, looking-glass,' from düba 'to behold'; makāmi and marīki 'handle, holder,' from kīma' to lay hold on' and rike 'to hold '; mazámni 'seat,' from aámna 'to sit down'; mafūdi 'borer, gimlet,' from fūda 'to bore'; masártši m. masartšia f. 'comb'; marüfi 'cover,' from rūfe 'to cover'; mabūdi 'key,' from būde 'to open'; matūki 'rudder, oar,' from tūka ' to steer, pull' ; mašīdi 'inn,' from šĩda 'to encamp, sojourn, alight at a place'; masōyi m. masoya f. 'beloved'; mašīgi 'entrance,' from šīga 'to enter'; madáffi wūri enda a ke dáffa' the place where cooking is done $=$ kitchen'; mahāyi 'something to mount on=steps, ladder,' from kāwa 'to mount'; makīaži or makiyaži ' one who refuses to hear,' from $k i \bar{i}$ 'refuse' and $\check{z} i$ 'hear' $=$ 'disobedient'; masōyi m. masōya f. masōyu pl. 'lover.'
4. Abstract nouns are formed by the suffix $t a(\boldsymbol{M})$, from nouns and adjectives, as: baú-ta 'slavery,' from bäıca 'slave'; gašér-ta 'shortness,' from gašēre 'short'; karia-ta 'falsehood,' from karia 'false' ; makajf-tā 'blindness,' from makāfo 'blind person'; tšivu-ta 'sickness,' from tšìno 'sick.' One word must be added : bärua 'dienerschaft $=$ staff of attendants.'
5. Substantives are formed $a$ ) by combining the word $a b i-n$, abú, pl. abúbua 'thing' with the Infinitive of verbs, as: abí-n-tsōro 'something inspiring with fear'; abi-n-ša'something to drink, drink'; abi-n-tši 'something to eat, food'; abi-n-utorigi'something to play with, plaything'; abi-n-sāra 'some cause of accusation, aceusation.' b) würi 'place,' with the Infinitive, as: würi-n-kwāna 'place to sleep=bedroom'; wūri-n-kizo 'place where cattle are feeding=pasture, field.' c) By means of the prefix mai, pl. māsu, of common gender. Most intimately connected with an aetion, so that a word thus formed may be always resolved, at least as to its origin, into a relative preposition, as: mai-gōna 'one who possesses
or cultivates a farm=farıner,' from göna 'farm'; mai-hilbi ' marksman,' from hálli' to shoot'; mai-dōki 'one who owns or attends to a horse'; mai-ki-cūuya 'molestation,' from kī 'to hate' and rūya 'trouble.' d) By the noun dā 'child, offspring, breed, native of a place,' as: da-n-birni 'native of a town'; da-n-dewcura 'native of Dawura'; dōki da-n-asbon ' a horse of Asbon breed.' e) To form Diminutives, both of human beings, animals, and things, as: da-n-ákuya 'child of the goat=kid'; du-n-dimmia 'child of the sheep=lamb'; $d(1-n-z \tilde{a} k i$ 'child of the lion=lion's whelp'; da-n-zínzua 'ehild of the bird=young bird'; da-n-nucana 'ehild of my mother,' an expression of endearment and affection ; ddenkuble 'son of the lock=key'; da-n-gáram-kộfa' the threshhold of the door'; da-n-garinnfa 'trader'; da-n-tšutša 'gambler,' and dū-n-gūtsia 'child of the nut,' because gambling is carried on by means of nuts; da-m-bäria 'the child of the erevice $=$ mouse'; $d(\pi-n-y \bar{a} k i '$ 'ehild of war $=$ soldier'; $d\left(a-n-i t s e^{\prime}\right.$ ' child of the tree=fruit.' $f$ ) By the prefix $g a$, as: gartkua ' that which holds the arrow=quiver'; garvike-n-šānu 'a place where cows are kept = cow-house,' from rike 'to hold '; garika 'inelosed place, inelosure, garden.' g) Nomina partrimonia are formed by the prefix $b a$, as: $b \pi-h a i ́ s e^{\prime}$ a man of the Hausa nation'; ba-haúšia 'a woman of the Hausa nation,' pl. hausāıa; ba-barībäri m. ba-barbara f. barǐbāri pl. 'of the Bornu nation' ; ba-gobiri m. ba-gobira f. gobiräua pl.; ba-nufi m. banufa f. nufava pl.; ba-yalude m. ba-yahudia f. yahudāuca pl.; ba-tūri m. baturia f. turāuca pl. 'European' or 'Arab.' h) The affix ka forms another class of substantives, as: barantá-ka 'service,' from bara 'to serve'; nagertá-kia 'goodness,' from nägari 'good' : sabonta-ka ' newness,' from säbo 'new' ; and many more, chiefly supplied by my friend Krause.

## Gender.

The Haúsa language differs from most of the Negro languages as regards the distinction of gender. Almost all of them know of no distinction except a physical one, that is, where it exists in nature, and then it is expressed by different
words; the same method also exists in the Haúsa, as will be seen by the following examples. There are but two genders, the masculine and the feminine. They are indicated by-

1. Different words, as: oba and uba 'father'; uıca 'mother'; $w a$ 'elder brother'; $y \bar{a}$ and iya 'elder sister' and 'female'; kāne 'younger brother'; kāmua 'younger sister'; mútum 'man,' 'homo'; mátše and mutúmnia 'woman'; räkumi 'camel'; tāgua 'female camel'; búnsuru' he-goat'; akinya and ákivia 'she-goat'; dōki 'horse'; gōdia 'mare'; zakī̄ra 'cock'; kīãa 'hen'; sä and biz̃imi 'bull'; sania 'cow'; lingi 'male ass'; $\check{z} \overline{a l k i}$ 'ass'; tōro ' male elephant'; gĩ̌a 'female elephant'; da 'son'; dïa 'daughter.'
2. Gender is distinguished by explanatory words, as miži and $n \bar{u}-m \bar{z} \check{\sim} i$ ' male,' and mátse 'female'; as: d $\bar{a}-n u \bar{u} m \bar{z} \bar{\sim} i$ 'male child'; yā máts̆e 'female' (ta hcï̆f dā-nā-mīzi; ta heạ̈̂i yā mátse; yāya-n-ta fúdu, biú māza biü māta); dī̃ máts̄e 'female child=girl'; da-n zäki m. da-n zakainya f. 'lion's whelp'; nā-mĩ̃̈in gādo m. mátsen-gādo 'sow'; da-n-ūıa 'mother's child=brother.'
3. Gender is distinguished by different terminations; the masculine may end in any vowel, while the characteristic termination of the feminine is $a$, which, influenced by cuphonical laws, may be ia, ania, ina, or unia, as: bäbe m. babänia f. 'locust'; mútum and mútumé 'man,' mutúmnia 'woman'; sárčki and sérki ' king,' saraūnia 'queen '; yāro 'boy,' yarīnia 'girl'; dā 'son,' dīa 'daughter'; liane 'younger brother,' kānua 'younger sister'; marāki m. maraka f. 'calf' ; barāom. baraünia f. 'thief' ; karé m. kiāria and käriya f. 'dog, bitch'; bāra m. barānia f. 'servant'; šarı̄̀i m. šar̄̄ra f. 'infant'; māyi m. 'wizard,' māyia f. 'witch '; zōfo m. zōfua f. 'old'; gādo m. 'pig,' gadōnia f. 'sow'; alfādari m. alfädara f. 'mule'; maizūnúfi m. maizünúfia f. 'sinner'; súnsu m. zúnsua f. 'bird.'

## Number.

The Haúsa has developed a plural form, of a dual no traces are found. The plural is formed in various ways, of which we give here but the most essential, and would refer to the

Grammar (1862), where extensive lists are given of nouns and adjectives. The principal means employed are the suffixes $m n a$, anu, ane, and their abbreviated form $u$; besides, $y e$ shortened into $i$, and the suffixes ši and $k i$; and lastly, the reduplication of the final syllable.

Fornation of the plural by a) una anu ane: rímbu, pl. rumbĭna 'storc-house'; sanfo, pl. sanfüna 'basket'; súrll, pl. surdŭna 'saddle'; gánga, pl. gangŭna 'drum'; ido, pl. idänn 'eye'; oba, pl. obāne and ubäne 'father.' b) By n: $a \approx \check{z}$ age'; tandāběra, pl. tandābĕru 'dove.' c) By ye: kiüra, pl. kurāye 'hyæna'; gixa, pl. gícüye 'elephant'; kīfi, pl. kïfüye 'fish'; bérdo pl. berdàye 'pigeon.' d) By $i$ : dōrina, pl. dör'inai ' elephant'; fükar'a, pl. fükarai 'partridge'; tāgua f., pl. tãguai 'camel.' e) By še: gidda, pl. gidăs̆se 'house'; bisa, pl. bisăs̆e 'creature' ; kūda, pl. knläs̆e 'fly'; gadó, pl. gadóse 'bed.' f) By ki: kicäna, pl. kıänaki 'day'; gōna, pl. gōnaki 'farm.' g) By means of the reduplication, chiefly of the last syllable: yāsa, pl. yasōsi ' finger'; albäda, pl. albadōdl, and algüba, pl. alyabōbi 'seam'; dáùga, pl. durigōgi 'garden'; liska, pl. hiskōki 'wind'; tüfu, pl. tufōfi 'cloth.' (Comp. Haúsa Grammar, §21.) Note.-It is hardly necessary to observe that the same word can take two, three, and even more pl. forms ; we will give an instance in the word albása 'onion,' which can take nearly every form possible: albása, sing., pl. albásai, albäsŭna, albásu, albasāye, albāši, albasäs̆e.

## Cases.

The Haúsa has not developed cases, either by terminations or otherwise, in the noun itself; the latter remains unaltered. Cases are known by the position the word occupies in the sentence.

The Genitive is expressed by $n a$, demonstrative pronoun; but the $a$ is invariably dropped, so that $n$ only remains; and whenever $n a \mathrm{~m}$. and $t a \mathrm{f}$. appear, they retain their original demonstrative meaning of 'that of,' 'those of.' For instance: rìga-n-Abega 'Abega's coat'; but riga ta Abega is 'that
which belongs to him, and to no one else,' standing, as it were, in apposition.

The other cases are indicated by prepositions or postpositions. The following paradigm may serve to show the use of them :

Nom. gída.
Gen. gida-n-ubā 'father's house.'
Dat. da, ga, ma gída; táfi ga gída.
Acc. gída; nì gáni gída-n-sa dagá nēsa.
Voc. $O$ and ke gída! ke mátše!

## Pronouns.

The Haúsa language has developed six classes of pronouns, viz. Personal, Reflective (Relative), Interrogative, Demonstrative, Indefinite, and Reflexive Pronouns.

Independent Form.
$\mathrm{m} . n \bar{a}-v c a \mathrm{f} . t \bar{a}-v c a$ 'my, my own' má-ni garē-ni 'to me, etc.
$n \bar{a}-k a \quad t \bar{a}-k a$ 'thy,' etc. mā-ka garē-ka
$n \bar{a}-k i \quad t \bar{a}-k i$
$n \bar{a}-s a \quad n \bar{a}-t a$
pl. $n \bar{a}-m u$
$n \bar{a}-k u$
$n \bar{a}-s u$

Compound Form. $m \bar{a}-k i \quad g a r e \bar{e}-k i$ $m \bar{a}-s a \quad$ garē-sa or garā-sa $m \bar{a}-t a \quad$ garē-ta or garā-ta $m \bar{a}-m u$ garēe-mu mā-ku garè-liu $m \ddot{a}-s u$ garê-su

Subjective. Objective. Adjective. Possessive.

| sing. 1st per. | $n a, i-n a$ | $n i$ | $n a$ | -na, ta |
| :---: | :---: | :---: | :---: | :---: |
| 2nd ," | m. ka, kaí | $k a$ | ka | -n-ka |
| " | f. ki, ke | ki | $k i$ | -n-ki |
| 3 rd ," | m. ši $(y a)$ | $\breve{s} i(s a)$ | sa | -n-sa |
| " " | f. $t a$, ita | ta | ta | -n-ta |
| pl. 1st " | mu | mu | mu | -n-mu |
| 2nd ," | ku | kie | ku | -n-kiu |
| 3rd " | su | su | sul | -n-sil |

Adjective and Possessive Pronouns, being abbreviated forms of the Absolute or Independent Pronouns, are treated
as suffixes to nouns, and hence we receive the following declension of nouns: dōki 'horse'; dūıcaki 'horses'; wūsia-n-doki-na ' the tail of my horse.'

| Adjective Declexstos. | Possessive Declension. |
| :---: | :---: |
| sing. dōki-na | dōki-na |
| dōki-ka | dōki-n-ka |
| dōki-ki | dōki-n-ki |
| dōki-sa | dōki-n-sa |
| dōki-ta | dōki-n-ta |
| pl. dōki-mu | doki-n-mu |
| dōki-ku | dōki-ı-ku |
| dōki-su | dōki-n-su |
| dāuaki 'horses' |  |
| dàuaki-na | dūuraki-na |
| dāxaki-ka | däuaki-n-kn |
| dāıcaki-ki | däuaki-n-ki |
| dāıcaki-sa | däıcaki-n-sa |
| düuaki-ta | däıcaki-n-ta |
| dāıcaki-mu | đāıcaki-u-mu |
| dȧıcaki-ku | dāıcaki-n-ku |
| dāıcaki-su | däuaki-n-su |

In the same way are nouns declined with the Independent or Separable Pronouns nā-va m. tā-uca f., as : nāma nä-ua 'my, i.e. my own meat,' and tägia tā-wa 'my, i.e. my own cap.'
näna nā-uca
nāma nä-ka
näma nä-ki
nāma $n \bar{a}-s a$
nāma nā-ta
nāma nā-mu
nāma nā-ku
nāma nā-su
tāgia tā-uca
tāgia tā-ka
tāgia tā-ki
tägia tā-sa
tägia tā-ta
tāgia tā-mu
tāgia tā-ku
tāgia tā-su

Among Personal Pronouns we must mention the word 'self.' It is expressed in Haúsa by the word kai 'head,' accompanied by Personal Pronouns; 'myself' is therefore
'my head'; and when more emphatically pronounced, it takes the verb $d a$ 'to have,' and ni da kai-na 'I myself' literally means 'I have my head.' The $i$ is frequently dropped.

| kai-na | ni da kaí-na 'I myself' |
| :---: | :---: |
| $k \cdot \vec{a}-n-k a$ | kaí da $k \bar{a}^{\prime}-n-k a$ |
| $k \cdot \vec{a}-n-k i$ | ki da kä'n-ki |
| $k \vec{a}-n-s a$ | ši da k $k \vec{a}$ ' $n$-sa |
| $k \vec{a}-n-t a$ | $i t a$ and ta da ka' ${ }^{\prime}-n-t a$ |
| $k a i-m u$ and $k \vec{a}^{\prime}-m u$ | mu da kai-mu and ka'd-mu |
| $k \cdot \bar{a}-n-k u$ | $k u$ da $k \vec{a} \cdot-n-k u$ |
| $k \vec{a}^{\prime}-n-s n$ | su da kiaj-n-su |

## Demonstrative Pronouns.

These are numerous, some occurring in one, some in another dialect. $\dot{n} g a$, com. gend. without a pl. form, 'this, that': dōki $\dot{n} g a \mathrm{~m}$. ' this horse' ; mūria ṅga f . 'this voice.' $n a$ and nan 'this, that,' neither distinguishing gender nor number: yäki nan ba na-béri ba 'I did not give up that war'; mútané-n-gari nan 'the people of that country.' wó-nan, referring to persons and things, 'this, that': wó-nan dā-n-sáriki ne, ba $d \bar{a}-n-b \bar{u} x a n e$ 'this one is the son of a king, he is not the son of a slave'; uó-nan rūa bābu kiēāo 'this or that water is not good'; wó-nan dä-n-ki ne? 'is this thy son?'; wó-nan ba uó-nan ba' this, not that'; gīda vóo-nan kĕaúta-tše ga tälakäura ' this house is a gift to the poor.' wó-nga m. wó-ga f. wo-dá$\dot{n} g a$ pl. 'this, that, these, those': wónga yãro 'this boy'; wó-ga yarīnia 'this girl'; wó-ga máfsse mayz̄a-tše' this woman is a witch.'

Note.-The ena (nā-ua, nā-ka, ctc.) of Barth, is not as rendered by him, 'this (is) mine,' but 'where is mine?' His r-uónan is unintelligible. The ko-me (komi) of Barth is not the " the relative pronoun of $k \bar{o}-u \dot{a}$. ." ${ }^{1}$ The difference between the two is, that one refers to persons, the other to things.

[^56]
## Interrogative Pronouns.

Referring to persons: wā? 'who?'; $n-w \bar{a}$ ? 'whose?'; $w \bar{a} \breve{s} i n e$ ? 'who is he?'; tümaki-n-va su lie? 'whose sheep are they?'; a gida-n-vā ya zám-na? 'at whose house did he stay?'; wā ya fadá mā-ka? 'who told thee?'; vã-ne, m., wá-tse, f., combined with the substantive verb ne and tse to be $=$ who is, or who was it that; wā-ne ya daúka dūkia-mu? 'who took our goods?'; wá-ťse-tše mútše tā-färi? 'who was the first woman?'; ū̄-ť̌e ga tşiki-n-mu tā ke da kěāo? 'which of us is beautiful?' ; wānēene, m., wätše-ťse, f ., 'who? who is it?'; uānē-ne ya fadá mā-sn? 'who, or who was it that told them?'; wānē-ne süna-n-ka?' what is thy name?'; wóne, m., wótşe, f. 'what? which? what sort or kind?'; wóne abú mamäkí ya-gáné? 'what wonderful thing did he see?'; wótše diā-ki ta-na-kiddi? 'which of thy daughters is playing?' cóni, m., vóta, f. 'something, a certain'; wóni-wóni 'the one, the other'; vóni mútum şina da māta biú, vóni mútum ši-na da dūkia da yāta' the one had two wives, the other had much property'; wóta yarinia ta-táfo na-ná, wóta yarinia tatáfi ț̃an 'the one girl came here, the other girl went yonder'; róta kāsa 'another country'; Dīa ta uóni mátše (?) 'the daughter of the other woman.' mi? 'what?'; mi ya-sämē$k a$ ? 'what has happened to thee?'; mika-bā-ni? 'what do you give me?'; mi $\approx \bar{a}-n i y \tilde{\imath}$ ? 'what shall I do?'; $x \bar{a}$ súna-$n-k a$ ? suna ' name, being masculine.'

## Relative Pronoun.

There is, in fact, no word in Haúsa which, strictly speaking, answers to qui, quæ, quod; demonstratives supply its place, as in the following sentence: ba ši sáni ba uónda ya daúki kúrdi-n-sa 'he did not know who had taken his money.' Compare also the words compounded with the prefix mai pl. mäsu- as : mai-aiki, māsu-aiki 'he who works,' they who are working = working man.

## Indefinite Prononns.

Gender is for the most part distinguished in these pro-
nouns; $k \bar{o}$ we regard as an intensive particle connected with other pronouns; as a conjunction it will be mentioned below. $k \bar{o}-v a$ see: $n \bar{a}-w a$ and $t \bar{a}-w a$ (remains unaltered) 'any one, every one, all'; liō-wa ya-tšika bíndiga-n-sa 'every one loaded his gun'; ba ta-gáni ba kō-w $a$. Kō-wa-ne 'every one, every person, each, whosoever he is or was'; kō-wa-ne ya-záka, yagáni, ya-tşe: ba ni ne ba 'every one (without any exception) came, looked on, and said: it was not I'; kō-vca-tse f. 'the same meaning'; kō-wo-ne m. kō-wo-tsse f. 'every'; kō-wo-ne dā s$i$-na-da $n \bar{u}-s a \operatorname{sun} n a$ 'every child had its own name'; liō-wo-tše säfia ši-na-yī má-ni-háka 'every morning he did the same to me'; kio-wo-da-ne' any sort or kind it may be'; don $k o ̄-w o-d a-n e ~ m a ̄ s u-f a t a u ́-t \breve{s} i ~ s u-n a-s ̌ i ̄ d a ~ d a g a ́ ~ n a n ' f o r ~ a l l ~ s o r t s ~$ of merchants alight at that place'; kō-yaúse 'whenever, whensoever, always'; kō-yaúše $i$-na-fadá-mā-ka 'I am constantly telling thee'; $b \bar{a} b u ~ k o ̄-v a ~ ' n o ~ o n e, ~ n o ~ b o d y ' ; ~ w o ́-s u ~$ in the dialect of Sokotu, in that of Katsina, vodá-usu 'some,' correlative-some-some; wodá-n-su su-na-kīwo rākuma, voodá-$n$-su su-na-nomo 'some attended to the camels, some to the field.' So likewise : wóda-nan, mu wóda-nan úkua n-hä̈fē-mu ga gari daia 'we all three were born in one (=the same) country'; háka 'so, thus,' is also used for 'the same'; yäro ya-ši haka magána-n-zakāra'the boy heard the same word of the cock.' It is used like such, such a one ; doin dā-dai ba-n-gáni ba háka gúlbi da gírima 'because I had never before seen a sea of such size.'

## Reciprocal Pronoun.

There is but one Reciprocal Pronoun as: $\check{z u} n a$ and $đ \widetilde{z} \bar{u} n a$ (einander) 'each other'; su-na-rába kúrrdi ga zū̄na-n-su 'they divide the moncy amongst each other'; su-na fáda da dZ̈zuna-$n$-su'they fight amongst each other' (Barth).

## Adjective.

Adjectives are cither simple, that is, such as are derived from no other part of speceh, as, gar' 'good'; kabri 'thick'; taüri 'hard'; dōgo 'tall'; zōfo 'old'; or such as are derived
from verbs, and gencrally of a passive or medio-neutral signification. Of the latter kind there are two classes. The first is formed by the prefix a bcfore the Infinitive of the verb, as: a-sāge 'drawn,' from säge 'to draw'; a-kucints̆e 'laid down,'from kuántše 'to lie'; a-yénke 'cut,' from yénke 'to cut'; a-s̄āre 'swept,' from šäre 'to swcep'; a-ucinke ' washcd, cleaned,' from ránke 'to wash.'

The second class, corresponding in signification to our Perfect Participle Passive, is formed by some kind of irregular reduplication of the last syllable of the verb, and indicates by the terminations the grammatical gender and number ; the former, of course, applies to the singular only, because the pl. knows of no distinction of gender. Of sucli are: dafáfe m. dafáfa f., pl. dafạfu 'cooked,' from dạfa 'to cook'; hniifúfe m. haïfáfu f., pl. hcüfáfu 'born,' from haïfi 'to bcar'; matátše, matúta, pl. matütı 'getödtet' 'dead,' from mútu 'to die'; taus̆esse, taus̆ăs̆a, and tausása, pl. taušas̃su 'squeezed, pressed, from taúsé; wankáke, wankáka, pl. wankákı 'washed, cleansed'; mu-ka-túbe-rīgŭna mu mā-su-daúdla, mukasa coodá- $n$-su ceankáku' we took off our dirty garments, we put on others (gewaschene) clean oncs'; näma dafáfe da rūa ko gasáse da vūta 'meat (cooked) boiled in water or roasted by fire'; masōyi m. masōya f., pl. masóyu 'beloved.'

The adjectire, both as predicate and attribute, can precede or follow the noun, but the former more generally follows the noun, as: babá sářki 'a great king,' but sárǐki babá-ne. In the pl. sarākŭnna 'great kings,' and babábu sarākkŭna babábu su-l.e 'the kings are great'; mútum nā-gari ' man (the) good,' pl. mútané nägarigarú 'good people ' ; mutané farúfarú mutané nā-gari ne 'white people are good people'; mátše tā-garí 'woman (the) good,' pl. māta nā-garigarú; mátše tā färi, tū biúu 'the first, the second'; nā-lēle m. tā-lēle f. 'the beloved.'

The gender is expressed by the termination of the adjective. zōfo m. zōfua f. pl. zōfi 'old'; sābo m. säbua f. pl. sābi 'new'; fari m. fará f. pl. farúfarú 'white'; gašīēre m. gačǐēra f. pl. gaš̌èrut 'short'; rigga-fará, pl. rīgŭna faráyu 'white garment'; kudūnia kāramá 'little mountain'; bindiga gašiēria, pl. bindigōgi gas̆īēru'short gun'; dōgo düši, pl. dogāye duäsu,
'high rock'; dōgıa-báka tāgia pl. dōguāye tāgiai 'high black cap'; zōfo-n-gari ke nan, mun-šiga ga säbua-dūnia'we have entered upon a new world'; abúbua dúka säbi su ke garê-ni ' all things were new (ones) to me.'

The adjective is used substantively, and is placed before or after the noun, to denote the attributive relation; always in the genitive. Yäwa-n-rai 'length of =long life'; dögo-ndūsi 'height of =high rock'; tsäwo-n-kaföni 'long horns'; wūzia-n-gaš̌̌ēria 'short tail'; dāki-n-dưfu'dark room'; rūa-$n-z a ̈ f i$ ' hot water'; gída-doguāye (?) pl. gidäs̆se dógoyēyu; kūkia-$n-y a ̄ r o$ ' boy's cry' ; kāsa-n-bīlio 'tributary country' ; nāma-$n$-d $\bar{a} s i=$ 'bush-meat.'

The verb $d a$ 'to have, to possess, be possessed of, to be, to exist, to be inherent in,' and as conjunction 'with,' forms adjectives denoting the possession or existence of the thing the word implies to which it is prefixed; as, da añfāni 'having use, being of use, with profit, benefit, advantage, advantageous'; $b a-\breve{s i}-d a-a n ̃ a \bar{a} n i$ 'it is of no use or profit'; da yünua 'having hunger, being hungry'; su-na mútua da yüña 'they are dying of hunger'; da rūa 'with water $=$ watery'; da raí 'alive'; da hánkali 'having sense, sensible'; da wāyo 'being cunning'; ši-na-da wäyo kama-n-kurēge, 'he is as cunning as a fox'; da găši 'having hair=hairy'; $n \bar{u}-m \bar{z} \check{z} i \quad d a$ mátše 'a man having a wife=married man'; dūnia ta-na-da sābo-n-wäta'the sky having a new moon, i.e. there is a new moon'; mai, pl. müsu (in some dialects mi), forms adjectives denoting the occupation or doing of the thing which is implied in the noun or verb; mai-aiki, pl. $m \bar{a}-s u$-aiki ' one who labours=working man'; mai mā-sukivo 'one who leads cattlc=herdsman'; dōki maí-gúdu maitsüua ' a swift high horse.'

The negative is cxpressed by $b a$ - (which is repeated as $b a-b a$, whenever it negatives an indicative), ba ka sáni ba ' you do not know'; bābu, and māras, pl. maräsa 'indicating absence'; ba ta-da-kěāo ba 'she is not beautiful'; bäbu üєa da bäbu uba 'without mother and without father = mother and fatherlcss'; bäbu mai-táfia ga rī̃ia da dère 'no one gocs $=$ there is no going to the well when it is night'; märas-
háikali, pl. marāsa-hánkali'senseless'; māras-lafia 'without health.'

Note.-The brief exposition of Dr. Müller (in the work above quoted) of the adjective seems to us to be calculated to mislead. He writes, "The adjective remains as a rule unchanged, and only when used substantively it follows the analogy of the noun; it is but in a few cases that the grammatical gender of the substantive to which it belongs is indicated." Against this we must maintain that the adjective invariably agrees with the substantive in gender and number, and that consequently his rule forms the exception, and his exception the rule. It may be that we have to blame ourselves for this misapprehension, as the rule laid down in $\S 38$ of the Haúsa Grammar may not be definite enough. There we say: The characteristic termination of the feminine gender is $a$, but influenced by euphonical laws it may be $i a$, ua, una, unia. Nä-gari ta-garí, etc., indicating the gender at the beginning of the word by $n a$ and $t a$ seem to be the only exceptions of this rule, others however have since been added. In fact all adjectives used substantively, and requiring in English the definite article, or in other words stand in apposition, as $n \bar{a}-b i s a, t \bar{a}-b i s a$ ' the one above'; na-färi, na-biü ' the first, the second,' come under this rule.

## Comparison of Adjectives.

There being no distinguishing forms to indicate gradation of adjectives, the language endeavours to make up for the deficiency in several ways.

1. By the mere positive, as: kāri, from kära' to add to $=$ addition $=$ more' ; ba na-sō kāri ya issa' 'I do not want more, it is enough.'
2. gouma in the sense of 'rather, it is better, more advisable,' as: kadán ku-bā-ši, ši-yāro-ne, ši-na-gbatásua, goúma ku-bäšzēta ga Tebib 'if you give it to him, he being but a boy, he may lose it, it is better to give it to Tebib.'
3. dāma, signifying (with or without hāmu) 'the right hand' we may perhaps think of strength=stronger and re-
ferring to health=better; ka-z̄̄̄ dāma kādán 'dost thou feel strength = better?' na-ז̌ī dāma ya-f $\mathfrak{z} \bar{z} \grave{\imath} a$ ' I feel strong, it surpasses yesterday $=$ better than.'
4. róngomi is used in the same sense, as: na-̌̌i róngomi $y \bar{a} o$ ' I feel better to-day.'
5. The comparative is expressed by the verb $f_{2}$ 'to surpass, to excel,' with or without $d a$, with that in which it takes place, as: ya-fiz-ni da kdrifi 'he surpasses me as regards strength=stronger'; ya fî kurēge da wāyo 'he is more cunning than a fox'; mōsi-n-háske ya-fī kāra-n-bíndiga da zamri' the motion of light surpasses the sound of a gun in swiftness=is swifter'; mu-na-da abi-n-ťsi ya-issa ya fī ' we have bread enough and to spare, i.e. more than enough.'

Superlative.
The superlative is expressed by $f \bar{\imath}$ with duka 'all'; sárızki ya- $f \bar{\imath}$ su dúka 'the king is the greatest of all'; rānē-ne tšiki-n-su ya fî su dúka? compare Haúsa Grammar, §§ 124125.

## Numerals.

The Cardinal Numbers are as follows:

1 daia.
2 biú.
3 йки.
4 fúdu, or húdu.
5 biál, or biár, or biat.
6 šida.
7 bokoi.
8 tokos.
9 tāra.
10 gōma, pl. gōmia.
11 goma s̆a daía, or ša daía.
12 goma šabiu, or ša biú.
13 goma ša úku, or ša úku.
14 goma ša fuclu, or ša fudu.
15 goma ša bial, or ša biál, biar, biat.

16 goma ša šída, or ša šida.
17 goma ša bokoí, or ša bokó.
18 goma ša tókos, or ša tókos.
19 goma ša tara, or ša tara.
 حشرين
21 üsirin da daia.
22 işivin da biúu.
23 işirin da úku.
24 iširin da fudu.
25 йşirin da bial, biar, biat.
26 iširin da šida.
27 išivin da bokoi.
28 isirin da tókos.
29 işirin da tāra.
30 talátin ثلانيّ

31 talaitin da dara.
32 talatin da biu.
33 talútin da úku.
34 talatin da füdu.
35 talatin da bial, biar, biat.
36 talatin du šida.
37 talatin da bokoz.
38 talatin da toblos.
39 talatin da tãra.



41 arbaïn da daka.
42 arbaïn da biü.
43 arbaïn da úku.
44 arbä̈и da fúdu.
45 arbaïn da biál, biar, biát.
46 arbaïn da šida.
47 arbaïn da bokok.
48 arbaïn da tólos.
49 arbaïn da tāra.
50 hamsin הַמּטִים;
51 hamsin da daza.
52 hamsin da biú.
53 hamsin da úku.
54 hamsin da fúdu.
55 hamsin da bial, biar, biat.
56 hamsin da šída.
57 hamsin da bokoz.
58 hamsin da tókos.
59 hamsin da tókos.

61 setin da daía.
62 setin da biü.
63 setin da úku.
64 setin da füdu.
65 setin da bial, biar, biat.
66 setin da šīda.
67 setin da bokioi.

68 setin da tólios.
69 setin da tära.
70 sebain, or sabaïn


71 sebaïn da daía.
72 sebaïn da biü.
73 sebaïn da úkiu.
74 sebaïn da fúdu.
75 sebaïn da bial, biar, biat.
76 sebaïn da šida.
77 sebaïn da bokoí.
78 sebaïn da tókos.
79 sebaïn da tāra.
80 tamānin تَمانيب
81 tamānin da daĩa.
82 tamänin da biu.
83 tamānin da úku.
84 tamānin da fúdu.
85 tamänin da bial, biar, biat.
86 tamānin da šida.
87 tamānin da bokoí.
88 tamānin da tókos.
89 tamānin da tara.
90 tisaïn تسعيש ; הִִִִִים
91 tisaïn da daía.
92 tisaïn da biú.
93 tisä̈n da úku.
94 tisaïn da fúdu.
95 tisaïn da bial, biar, biat.
96 tísaïn da šida.
97 tísaïn da bokoi.
98 tísaïn da tólos.
99 tisaïn da tāra.
100 darí.
101 darí da daia.
110 darí da gōma.
111 darí da gōmä ša daía.

120 darı́ da ūşirin.
121 darí da üširin da daía.
130 darí da talātin.
131 darí da talãtīn da daia.
140 darí da arbaïn.
141 darí da arbain da daia.
150 darí da hámsin.
151 darí da hamsin da daía.
152 dari da luamsin da biú.
160 darí da setin.
161 darí da setin da daía.
170 darí da sebain.
171 dari da sebain da daía.
180 darí da tamānin.
181 darí da tamānin da daía.
190 darí da tísaïn.
191 darí da tísaïn da daía.
 (also, ď̌augu biú and darí biú).
201 mētin da daía (dšaugu biu da daía) darí biú da daía.
210 mētin da gōma.
220 mētin da äširin, or äširin.
230 metin da talatin.
240 metin da arbaïn.
250 metin da hamsin.
260 metin da setin.
270 metin da sebaïn, or sabaïn.
280 metin da tamānin.
290 metin da tiscün.
300 dariz úku.
301 darí útiu da daía.
310 darí úku da gōma.
311 darí úku da gōma ša daia.
312 darí úku da goma s̆a biü.
319 darí úkúu da gōmo ša tūra.

400 darī fúdu; arba minya.
401 darí fúdu da daía.
410 darí fuda da goma.
500 daribial, and hamsinonāa; ةй
600 darí šída.
700 darí bokoi.
800 dari tókos.
900 darí tāra.
1000 dúbu, or samber, or zamber.
1001 dubu da dain, or samber da daia.
1010 dubu da goma, or samber da goma.
1110 dubu darí da goma.
1111 dubu daia da gōma s̆a daía.
1999 duba darí da tísaïn da tāra.
2000 dubu biú, or älfin,

2001 dubu biú da daia, or alfin da daía.
2010 dubu biü da goma, or alfin da gōma.
3000 dubu $\bar{u} k u$, or zamber úku, or talāta.
3001 dubu úku da dain, or zamber úku da daia. or talāta da daźa.
3010 dubu úku da goma, or samber útiu da goma, or talāta da goma.
4000 dubu fúclu, or samber fúdu.
4001 dubu fudu da daia.

4010 dubu fudu da goma, or zamber fuducla goma. 5000 dubu bial (biar, biat), or aamber bial.
5001 dubu bial da tlaia, or zumber lial da daia. 5010 dubu bial da goma, or zamber bial da gōma. 6000 debu šida, or a amber šida.
7000 dubu bokó, or aamber bokoí.
8000 dubu tólos, or zamber tókos.
9000 dubu tāra, or aamber tāra.
10000 dubu goma, or zamber goma.
20000 dubu isirin, or zamber iširin.
30000 dubu talátin, or zamber talátin.
40000 dubu arbain, or zamber. arbain.
50000 dulu hámsin, or zamber hamsin.
60000 dubu setin, or aamber setin.
70000 dubu sebain, or zamber sebain.

80000 dubu tamänin, or zamber tamänin.
90000 dubu tisaün, or zämber tisaïn.
200000 dubu dar'i biú, or zamber dari biü.
300000 dubue dar'z úku, or zamber darí úlu.
400000 dubu dari fúdu, or zamber clarí füdu.
500000 dubu dari bial, or zamber dari bial.
600000 dubu dari šida, or zamber darís şida.
700000 dubu dariz bokoi, or zamber darí bokoí.
800000 dubu dur'z tókos, or zamber darí tókos.
900000 dubu darí tāra, or zamber darí tāra. 1000000 dubu darí goma. 2000000 dubu dari goma biú. 3000000 dubu dari goma úku. 4000000 dulu darí goma fídu. 5000000 dubu deri goma bial (biar, biat).
6000000 dubu darí goma šida. 7000000 dubu darí goma liokoi.
9000000 dubu darí goma tāra.

Note 1.-In the common way of counting, the numerals from 11 to 19 appear in a contracted form; as, instead of goma ša daía, merely ša daóa, 11, ša biú 12 , ša úkiu 13 , etc.

Note 2. -18 and $19 ; 28$ and 29 , and in the same way all decades up to 98 and 99 , are also expressed in a different manner ; as, žširin liü bābu 'twenty less two,' and žsirin daia bäbu, or bäbu daia 'twenty less one '; talatin büu bäbu' thirty less two,' etc.

For the tenths from 20 to 90 , some use a plural form of gōma, 10 ; as, gōmia, with the units to 9 , and say : gomia $\bar{a}$ biú 20 ; gomia úku 30 ; gomia fúdu 40 ; gomia bial 50 ; gomia šida 60 ; gomia bokói 70 ; gomia tókos 80 ; gomia tāra 90 . There can be no doubt but that this method is the original Haúsa way of counting, as it is still used among slaves and the lower classes; and that the other method has been adopted by the higher classes, and especially by merchants, from the Arabs.

## Ordinal Numbers.

The Ordinals are formed from the Cardinals by means of the prefixes $n a$ and $t a$, which combine two offices, viz. the formation of the Ordinals, and the distinction of Gender. 'The first' has no connexion with the Cardinal 'daia,' but is irregular, as, nafāri m., tafari f., and is probably derived from the verb fāra 'to begin,' hence, as it were, the beginning=the first. In this sense nafäri is ' the first-born son,' and tafäri the 'first-born daughter.' When it signifies superiority in rank and position, 'the second,' unless followed by other Ordinals, is not nabiu, but nabāya, derived from bäya 'back,' 'behind,' that is, the one that comes after another, or is below in rank or position, as it were, 'the one behind,' and hence, also, ' the last.'

| The 1st m. na färi, | f. ta fâri. |
| :---: | :---: |
| 2nd m. na biu, | f. ta bíu, and na bāya, ta bāya. |
| 3rd m. na úku, | f. ta úku. |
| 4th m. na fudu, | f. ta fudu. |
| 5 th m. na bial, | f. ta bial. |
| 6th m. na šida, | f. ta šida. |
| 7th m. na bokoí, | f. ta bókoi. |
| 8th m. na tolios, | f. ta tólos. |
| 9 th m . na tāra, | f. ta tāra. |
| 10th m. na göma, | f. ta gōma. |
| 11th m. na gōma ša daia, | f. ta gōma s̆a daía. |
| 12th m. na gōma s̆a biú, | f. ta göma ša biú. |

Note.-In the numbers above ten, a preference is manifested in the language for the use of the Cardinals instead of the Ordinals, though the latter do also oecur ; it is very likely, however, merely from inattention.

## Adverbial Numbers.

The Adverbial Numbers, in answer to the question, How often? are formed from the Cardinals by means of the word $s \bar{a} \pi$ or $s \bar{a}$ 'time,' prefixed. The second $a$ is changed into $o$ or $u$, as saadaīa, or saudaía :
sau daia or sao daia, ' once.' san gōma ša biú, 'twelve times.'
sau biü, ' twice.'
san úku, 'three times.'
saủ fudu, 'four times.'
saíu biàl, biár, biat, 'five times.' san šida, 'six times.' sau bokoi, 'seven times.' sau tokos, 'eight times.' saut tāra ' nine times.' sau gōma, 'ten times.' saugöma ša daia,' 'eleven times.'
sau z̈sirin, 'twenty times.' sau talátin, ' thirty times.' sau arbain, 'forty times.' sau hamsin, 'fifty times.' sau sētin, 'sixty times.' sau sebaïn, 'seventy times.' sau tamänin, 'eighty times.' sau tisainn, ' ninety times.' sau dari, 'hundred times.'

## Distributive Numerals.

The Distributive Numerals in answer to the question 'how many to each?' are expressed by a repetition of the Cardinals, as, ya-aikēsu biu biu' 'he sent them two and two'; ya-bada daia daia ga kioucanēnsu' he gave one to each of them.'

## Fractional Numbers.

No other Fractional Numbers have been diseovered by the writer than such as may be formed by the word $\breve{s} \breve{a} \breve{s} e$ 'half,' more properly, 'part or portion'; as, ya-bāni suăs̆e 'he gave me half'; and sun-bāni sāăse-n-úku'they gave me (the third part) three parts.'

## Verb.

There are in Haúsa, like in every other language, Primitive verbs, as: $\tau_{\bar{s} \bar{\imath}}$ 'to eat'; $\breve{s} \bar{a}$ 'to drink'; $\check{\approx} \bar{\imath}(d \bar{z} \bar{\imath})$ 'to feel,' and Derivatives. We might also divide them into monoand polysyllabic verbs, as, róko, nōma, dāwoyo, fäskare, etc., etc. The nature of their different eomponent parts has not as yet been ascertained by us; we therefore refrain from offering any conjecture; of so much, however, we are satisfied that polysyllabic verbs will never be found consisting of two or more verbs, like in the Yoruba, Ewe, and Mende languages; if such were the case, it would have been discovered long since. We shall never find a sentence in Haúsa like in Mende, where we say: 'go lay hand pipe on come with it me to,' for 'fetch me the pipe.'

## Substantive Verbs.

The substantive verbs are $n e, k e$, and tse; they appear in no other form, that is, there is no eram and fui connected with them. $N e$ is masc. tse fem. and lie is com. gender, and, besides this, is always preceded by the Subjective Pronouns, like the verb in general. It is necessary to mention (it being of importance in the formation of the Tenses) that the same verbs also appear, as $n a, k a$, and $t a$, in the dialect of Sokotu, Gobir, and probably in others. 1 It will be observed that these verbs only figure in the 3rd person, ke only making an exception. Some examples: ubā-n-ka sárvlii ne? 'as to thy father, is he a king?'; an, tälaka ne, ba sàrvki ši-ke 'No, No, he is a poor man, he is not a king' ; ni ne ba kai ka-ke ' it is I , it is not thou'; Ká mügu mai-mägani ka ke ' O thou art a bad doctor !' ; Yāro nan kārami ne; yarinia nan kãr.ama tše. Ni ba kūr‘a ba ts̄e ni uıā-n-ki tše. Ba-haus̆e ne? ¿ bahaúše şi ke. Yánzu kai dā ku-ke, ba bãuca ba. Sce Dr. Müller, p. 229, in the work above quoted.

[^57]
## Formation of Verbal Slems.

The formation of verbal stems may be said to take place in several ways: 1) by changes taking place in the form of the verb itself, and 2) by the use of separate verbs, and 3) by the addition to, or combination of partieles, with the verb in its primary form.
I. Internal chauges.

1. This sort of change takes plaee by changing the final vowel of the lransitice verb into $u, o$, to form stems of an intransilive medio-passive or reflective signification, as: Lúda 'open'; búdu 'to be open'; dē̃de 'inerease'; dùdu 'to be inereased, enlarged'; góla 'to show'; gódu 'to be seen, to appear'; gáma 'to join'; gámu ' be joined, join oneself'; gböye 'to hide'; gböylı 'be hidden, hide oneself'; mátse 'to squeeze'; matsit 'to be squeezed'; raissa 'to lose, miss'; rassin 'be lost, etc.'; näde 'to roll or fold up '; nadu, ya nädhu ť̌iki-n-labérma 'he rolled himself up in a mat.'
2. Changes into o point to different meanings in the verb, for instance, as regards motion to or from a place, ete., etc. aike 'to send to'; aiko 'to send from'; dauilia 'to take'; daùho' take up'; däıcoya 'return to'; dā̀royo 'return from'; kioma 'to go baek'; kiomo 'to come baek'; filla 'to go out'; fito 'to come out'; šiga 'to enter, go in'; šigo 'to come in'; šìda 'to ascend'; šīlo 'to descend'; kiōya 'to teaeh ': kōyo 'to learn'; German lehren and lernen; köya-n-magána kanurı da vūya 'to teach the Kánuri language is difficult'; köyo-nmagána Eñliz da wūya 'to learn the English language is difficult.'
3. Another elass of verbs, varying more or less the meaning of the simple form, may be mentioned at this place. The examples will best explain the nature of them. kai' 'to carry, to take to, up'; kiào and käuo 'to bring, bring back '; kird 'to call, to name'; kirāko and kiräye 'to call for one, to summon,' ; $\check{z} \bar{a}$ ' 'o draw,' and $\check{z} \bar{a} \bar{a} y e$; $\check{a} \bar{a}$ ' to drink,' German 'drinken'; šainye 'drink greedily, swallow eagerly,' German 'saufen'; tssi ' to eat,' German essen; tšainye 'to eat greedily, to destroy completely,' German 'fressen '; ba su-ka-beri ba har
su-ka tšainya gari nan dúka 'they did not leave until they had destroyed the whole town '; tāya (taiya) tainye 'to help.'
4. Käwa, sáma, saúya and rikída, form verbal stems of an intransitive signification. I-na kāza tālaka ' I am becoming poor'; kāxa-gōni 'become clever'; ta-na-kāza zúnsua 'she transformed herself into a bird '; i-na-sō-n-kãwo mállami, doñ ina sō-n-kioya ga mútané-n-kāsa-mu 'I wish to become a priest, that I may teach the people of our country.'
II. Composition of words, verbs with nouns and adjectives to form verbal stems of a transitive meaning; as well as intransitives.
5. $y \bar{i}$ ' to do, to make'; yī-magána' to speak'; yī-tãya 'to help'; yī-kūka 'to cry'; yī-girrma 'to make or to become great, intr. to grow'; yī-máza and yī-zámri' to make haste, be quick' ; yī-yāxa ' to multiply.'
6. The verb $\check{z} \bar{i}$ ( $d \check{z} \bar{\imath}$ ' to feel, to hear, to obey'), combined with nouns and adjectives, forms verbal stems of a passive and reflexive signification. $\breve{z} \grave{i}$-magána'to hear, understand, listen to, $i$. e. obey (the word)'; $\check{z} \bar{i}$-tsōro' to fear'; $\check{z} \bar{i}-k \bar{u} u m i a$ 'to be ashamed'; $\check{z} \bar{i}$-taúsāyi 'to be compassionate' ; $\check{z} \bar{i}$-läfia 'to be well, in health.'
7. $S \bar{a}$, 'causative, to make or cause to do'; $N \bar{i}$ sa ši ši táfi tšiki-n-žirǐgi 'I will make him go in the boat.'
III. From Simple or Primitive verbs others are derived by adding certain particles to the root; in this way some modification and extension of meaning is expressed, in the same way as in the Hiphil, Piel, etc., in the Hebrew. These suffixes or particles are: da, š̌̌e (še), yes, yés $d a$ and asda, sã, and $t a$. By these means we obtain the following seven forms of the verb: 1st bā, 2nd bädla, 3rd bäsule, 4th bäyés and báyēsua, 5th basa, 6th bayesla, 7 th tsöräta. The number of forms produced depends upon the nature of the primitive verb; in some verbs special forms are altogether wanting, in others only a few forms are in use, and others again appear in every form the verb is capable of producing. The same difference prevails with regard to the signifieation of the verb in the separate forms. In our Grammar of 1862 , in the Dictionary of 1876 , and in the Reading-

Book of 1877, we have fully explained these forms; and although more have siuce been collected, no neio forms have been brought to light; we will therefore not dwell upon them now any longer, but content ourselves by giving the signification of one verb through every form.
I. tsai or tsaye (intransitive) 'to stay, stop, remain at a place.'
II. tsaida (reflexive) 'to place oneself, to make a stand against.'
III. tsaǐ̌sé (causative) 'to cause to stand, to detain, to restrain.'
IV. tsāyés, tsayésua ' to stop on one's own accord'; also (transitive) ' to hinder, to prevent.'
V. tsaisa (transitive), ya-tsaisa-sa 'he stopped him.'
VI. tsäyésda 'to detain by force, to hinder, to oppose':
 that shall detain this man by force shall be put to death.'
VII. The seventh form is made from nouns and adjectives by the suffix ta, as: tsörita 'to frighten,' from tsöro 'fear'; taüräta ' to harden,' from taūri 'hard'; sāālŏrıäta 'to hold a consultation,' from säucōra ' consultation, deliberation'; bārata 'to serve, do service,' from bāra 'servant' (Barth) ; gáskiäta 'to assure, persuade,' from gáskia ' truth'; däriàta 'to ridicule,' from dāria 'laugh, laughter'; kürúmta (intransitive) 'to become dumb'; makiafta 'to be or become blind ' (it is doubtful as to whether this verb ought to be inserted at this place; it has no connexion as regards deriration with preceding forms, neither with the same class of verbs).
Frequentative and Intensive verbs. They are formed by a repetition of the whole word, and by a reduplication of the first s.llable, as: ši-ina táfia ši-na táfia 'he is going on, going on =always walking and walking = walking very far'; ya-šāa ya-ša har ya-sáma märas-hánikali ' he was drinking, drinking, till he lost his senses'; bügebige 'to strike often, repeatedly, severely '; tšinia tšinie $=$ yaua $a-n-t$ tsi ' 'eating very much'; lâlabe and fáfage ' feeling much about with the hand in the dark, in search of something'; tšátšage 'to break to pieces '; tátara 'to pick up, out, much, gather together'; the rapid
action of a bird picking up seeds; sósoke 'to pierce much, fiercely,' etc.

## Moons.

Moods are expressed by particles or conjunctions which produce no change in the form of the verb. These particles are: en 'that, in order that,' embracing the 1st pers. sing. ' that I,' etc. : en kōya mútané 'that I may teach . . .' ; kadán $n \bar{i}-s a \bar{a}-h a ́ n \dot{n} k a l i-n a$ ' if I set my mind on it.' sai ' I must needs go': sai mì taf, nīkirā mai-māgani. All these are forms of the Future tense. We may say that the Subjunctive is expressed by the Future. So also in the Negative, káda 'lest, that not': láda sū-mutu ' that they should not die.'

Permissive or Concessive are implied in the verbs kan can, 'be used to, in the habit of,' and iya 'be able': ki kian túf, ki kan tši 'thou canst go, thou canst eat.' The Negative is expressed by the verb $k i \imath$ 'to refuse': ta-lī zakua 'she refused $=$ would not come.'

## Infinitive.

The Infinitive is, as said above, the mere stem of the verb. ni táfi kuāna 'I go to sleep'; su-n-tafi tşi-n-tuo-n-su 'they go to eat their food.' It invariably follows verbs that do not express a complete predicate, as: fāra gúdu 'begin to run'; ba ya liãra ba liüka 'he did not continue to ery=he cried no more'; sū-táfo su taya-mu 'they come, they help us = to help us.'

## Imperative.

The Imperative is declined in person, number, and gender by means of the subjective pronouns lia, ki, liutuifi. It is only when person, number, and gender are otherwise expressed that they can be omitted before the verbal form : ya tše máni, tưfi 'he said to me, go,' but ya tše, lia táfi 'go thou.' The language is very distinct on this point, in cxhibiting gender and number; so much so, that traces of it are found even in interjections, as : kai yāro! 'O thou boy !'; ke mátše! 'O thou woman!'; liut tífo mu liämu līfi 'come ( j c$)$, let us catch fish.'

## Tenses.

The Haúsa has developed five tenses-the Aorist, Present, Imperfect, Perfect, and Future. The Present, Perfect, and Future tenses appear in a finite and a participial form, and the latter is inflected in person, number, and gender, and governs an object, and expresses all the relations of the finite verb.
I. The Aorist is the simplest form of the verb, consisting of the personal pronoun and the verb; it exhibits a momentary event, without regard to present, past, or future time. The passive is formed by the prefix $a$ :

## Active.

$$
\begin{aligned}
& \text { sing. 1st per. } \quad n a-b a \text { ' I give.' pl. } m u-b a \text { 'we give.' } \\
& \text { 3rd ", m. ya-ba } \\
& \text { ", " f. ta-ba }
\end{aligned}
$$

## Passive.

$a-b a-m i$ ' mir ist gegeben, I am given.'
$a-b a-k a$
$a-b a-k i \quad a-b a-m u$
$a-b a-s a \quad a-b a-k u$
$a-b a-t a \quad a-b a-s u$
II. The Imperfect and the Future Perfect are expressed by the same form. The characteristic sign of this tense consists in the letter $n$, an abbreviation of the $n a$ of the Present tense, affixed to the subjective pronouns; but it is only to the 2nd person, in the singular, and all the persons of the plural that can take the $n$ in the Active, the other persons are the same as in the Aorist. This $n$ appears again in the Passive form, combined with the $a$, characteristic of the Passive, in the form of a prefix an (likewise also $a \dot{n}, a m$ ) :

| Actite. | Passive. |
| :---: | :---: |
| sing. $n a-b a$. | an-aikè-ni ' I was sent.' |
| $k a-b a-$ | an-ailie-ka m. 'thou,' etc. |
| ki-n- | $a \dot{n}$-ailie-ki f. $\quad$, |
| ya- | an-aikiē-ši 'he was,' etc. |
| $t a-$ | $a n-a i k e-t a ' s h e, ' ~ e t c . ~$ |
| pl. mu-n- | an-aike-mu |
| lu-n- | an-aikē-ku |
| su-n- | an-aîliè-su |

## Present.

III.-The Present tense is formed in two ways: both substantive-verbs $n a(=n e)$ and lie (=lia) are used in the Active voice, combined with the subjective pronouns; and in the Passive voice, combined with a, they form the prefixes $a-n a$ and $a-k e$. In the Participial form the verb undergoes some changes, that is, the Finite form is changed into the Participial; hence, táfi becomes táfia, and tafia-wa, zámna becomes zámne; fita-f゙itaxa; bàyes-báyēsua, etc.

Active.

Finite Form.
sing. i-nn-tafi
mi-ke-tüfi
ka-na-táfi
lat-ke-túfi
ki-na-táfi
ki-ke-táfi
ši-na (ya-na) túfi
ši-ke-túfi
ta-na-tafi
ta-kr-täfi
pl. $m u-n a-t a ́ f i$
$m u-k e-t u ̛ f i$
kiu-na-tüfi
ku-ke-túfí
su-na-táf
sn-ke-táfi

Participial Form.
i-nct-tafia or tafia-ua
ni-ke-tséıca
ka-na-táfowa
ka-ke-fitora
ki-na-žī-n kūmia
ki-ke-da hánkali
ši-na-ェámne
ši-ke-yıi
ta-na-táyyēsua
ta-ke-yī-n-kūkia
mu-na-~āmne
ku-ke-kämaura
ku-na-färaua
ku-ke-kwāna
sn-na-da-alin da sn ke so
ku-ke-da kírodi

```
Passive.
\[
\begin{aligned}
& a-k e-b \bar{a}-n i \text { ' I am given.' } \\
& a-k e-k \bar{a}-k a \\
& a-k e-b \bar{a}-k i \\
& a-k e-b \bar{a}-s ̌ i \text { or } s a \\
& a-k e-b \bar{a}-t a \\
& a-k e-b \bar{a}-m u \\
& a-k e-b \bar{u}-s u \\
& a-k e-b \bar{a}-k u
\end{aligned}
\]
```

$a-n a-b \bar{a}-n i$
$a-n a-b \overline{-}-k a$
$a-n a-b \bar{a}-k i$
$a-n a-b \bar{a}-s a$
$a-n a-b \bar{a}-t a$
$a-n a-b \bar{a}-m u$
$a-n a-b a \dot{-}-s u$
$a-n a-b \bar{a}-k u$

## Perfect.

IV. The Perfect Tense is formed by combining the particle $k a$ ( $=k e$, also $k a$ in some dialects) with the Subjective Pronouns. The first person forms an exception, being mi-na instead of ni-ka, as in the expression ni-na-küs̆siē Dodo!' I have killed Dodo!'; Kai! mi mi-na-yi? ' O! what have I done?' The Passive is formed by the prefix $a-k a$ in analogy with $a-n a$ of the Present Tense.

## Active Voice.

Sing. 1st Pers. ni-na-bāda 'I have given up.'
2nd Pers. m. ka-ka-tsé háka ' thou hast said so.'
2nd Pers. f. ki-ka-maida ' thou hast turned.'
3rd Pers. m. ši-ka-tsaisa-sa 'he has detained him.' 3rd Pers. f. ta-ka-käwásda 'she has removed.'
Pl. $m u$-ka-taršīe-ši ' we have overtaken him.' ku-ka-kaúda dōka 'ye have taken away the law.'
su-ka-tsāyésda-su 'they have detained them.'

Passive.

| $a-k a-b \bar{a} d a$ má-ni | $a-k a-b \bar{a} y e ́ s ~ d a-n i$ |
| :--- | :--- |
| $a-k a-b \bar{a} s \bar{e}-s ̌ i$ | $a k a-b \bar{a}-m u$ |
| $a-k a-b \bar{a} y e ́ s ~ g a r e \bar{e}-s a$ | $a-k a-b \bar{a}-k u$ |
| $a-k a-b \bar{s} s a-s a$ | $a-k a-b \bar{a}-s u$ |

Participial Form.
V. This form might probably bear another name, as Pluperfeet or Indefinite Past Tense. We will not quarrel about the name. It is formed by a combination of the charaeteristie form of the Imperfect and Perfect Tenses, together with the ever-neeessary Subjective Pronouns, and is in the Aetive $n-k a$, and in the Passive, where the same combination will be observed, an-ka, añ-ka, am-ka, and presents the following form :

## Active Voice.

Sing. ni-ka, da ni-ka yī háka 'when I had done so.'
ka-nka yı̄ wónan 'thou having done this.'
ki-nka, mi-ki-nka tse? 'what hast thou been saying?'
ši-nka-aikē-ni 'he having sent me.'
ta-nka-bädla-má-sa 'when she had given him.'
mu-nka-zúmna nan 'having resided there.'
ku-nka, mi ku-nka tše? 'what have ye been saying?'
su-nka-bäs̆i bäyi biú ya táfi' when they had given him two slaves he departed.'

Passive.
$\dot{\dot{n}-k a-z u \bar{u} b a-n i}$
$a \dot{n}-k a-z \bar{u} b a-k a$
$a \dot{n}-k a-k \dot{a} s \tilde{e} \check{e}-s i$
$a \dot{n}-k a-s a y y e ́ s-t a$

$a \dot{n}-k a-k i v a \bar{a}-m u$<br>$a \dot{n}-k a-k i \cdot \bar{a}-k u$<br>à̀-lin-sāyésda-su

Future.
VI. The Future Tense is formed in two ways, 1) The verbal stem has the final vowel of the Subjeetive Pronoun prefixed (not always distinctly pereeptible) which we express by the lengthening of the fiual vowel, regarding it as a contracted form; we thus obtain the seheme for the future, $n \bar{u}, k \bar{a}, k_{i},{ }_{s} \bar{i}, t \bar{a}, m \bar{u}, k_{\bar{u}}, s \bar{u}$.
2. The verb $\approx \bar{a}$ (from $\approx \bar{u} a$ ' to go'), followed by the Pronouns, is used, as : $\approx \dot{a}-n i, z \bar{a}-k a, \approx \bar{a}-k i, z \bar{a}-s i, z a \bar{l}-t a ; \approx \bar{u}-m u$, $\approx \bar{i}-$
$k u, z \bar{u}-s u$, and in the Passive form $z \bar{u}$ is followed by $\bar{a}$ combined with the verb, as: $z \bar{a}-a-b \bar{a}-n i$ ' I shall be given,' ' man wird mir geben.'

Active. Passive.

| Sing. | $n \bar{i}-b \bar{a}$ | $z \bar{a}-\bar{a}-b \bar{u}-n i$ |
| :---: | :---: | :---: |
|  | $k \bar{a}-b \bar{a}$ | $z \bar{a}-\bar{a}-b \bar{a}-k, k$ |
|  | $k i \bar{i}-b \bar{a}$ | $z \bar{a}-\bar{c}-b \bar{a}-k i$ |
|  | $\check{s} \bar{i} \cdot b \bar{a}$ | $z \bar{a}-\bar{a}-b \bar{a}-\stackrel{s}{ }$ |
|  | $t \bar{a}-b \bar{a}$ | $z \bar{a}-\bar{a}-b \bar{a}-t a$ |
| Pl. | $m \bar{u}-b \bar{a}$ | $\approx \bar{a}-\bar{a}-b \bar{a}-m u$ |
|  | liù-bä | $z \bar{a}-\bar{a}-b \bar{a}-k u$ |
|  | $s \bar{u}-b \bar{a}$ | $z \bar{a}-\bar{a}-b \bar{a}-s u$ |

## Participial Form.

The verb undergoes the same changes as in the Present Tense Participial form; we obtain hence the following inflection: zā-ni-táfia, llavoyova, kāma or kāmaıa, zā-kt-tüfia, etc., etc.

Prepositions and Postpositions.
The Prepositions in the Haúsa language are like the Prepositions in the Semitic languages of nominal origin; they take (with the exception of a few, as: $a(=g a) d a$, $g a, m a$ 'to, with, at, by, for,' etc., etc.) the substantive to which they belong in the genitive, and can throughout be combined with the Possessive Suffixes and the Objective Pronouns.

1. $a$, 'in, at.' In the Katsina dialect it occurs but rarely, ga being used for it, da 'with,' instrumental; da wūka 'with a knife'; da sánfo'with a basket.' For, yayiz-ši da-ni 'he did it for me'; ya mútu da-mu' he died for us'; ga 'to'; ya yī má-su nägarí ' he treated them well'; ya ťe ga abōki-nsa 'he said to his friend'; ya záka ga nā-sa'he came to his own'; ma'to, for'; ga viüri nan'to this place'; ya yì roko má-sa 'he prayed for him'; dagá is a combined preposition, but
used as a simple one, from and to depending on the kind of motion from or to or rest at a place; garê, originally a substantive, meaning 'place, side, part, etc., etc.,' always or mostly accompanied by other Prepositions; dagá garē-ni 'from me'; ya hāwa bisa ga, ya šīdo dagá bisa 'he went up, he come down'; su táfi nēsa dagá garē-mu' they went far a way from us'; su táfo lúsa garè-mu.
2. Substantives are employed as Prepositions, but they generally maintain their original character, taking one of the original Prepositions or Postpositions with them. The principal of these nouns are (members of the human body), $b \bar{a} y a a^{\prime}$ back=behind,' after adv. ya-táfi gába ina bī-nsa dagá $b \bar{a} y a$ 'he went before, I went behind him'; bisa 'top, summit=on, upon, above'; ya-hāwa bisa, na s̄̄̄da kāsa 'he went up, I down'; tsáka and tsakāni 'midst, middle= between'; ba ya-sä-bambámta ba tsakani-mu da su' he made no difference between us and them'; fúska 'face, front $=$ before'; ya-táfi gába-ga fúska-nsa 'he went before him'; gába 'front, chest=before'; ya $a \bar{z}\langle\bar{e}-s a$ gába garē-sa 'he laid it before him'; kīsa 'ground, earth=down'; ya kuāna käsa 'he laid himself down'; tsiski 'belly, inside =in, into'; wanē-ne-ši-na šiga tšiki-n-rī̃ia 'who is that is going into the well?'; ni, na šiga ga tşiki-n-gida ' I, I am entering in the house'; kalláśi 'bottom, lower part=under, down'; su yigína ga kalkáši-n-liāsa káma-n-kurēge 'they are digging under ground like foxes.'

## Adverrs.

What we said of Prepositions may be said of Adverbs; the same word appears sometimes as an Adverb, sometimes as a Preposition, and sometimes as a Conjunction. There are pure Adverbs, and, on the other hand, the adverbial notion is expressed by noums, cxactly as is the case with Prepositions. We will follow the usual division of Adverbs of place, of time, and of manner, and give examples of a few, for the rest we must refer to the Grammar.

Pure Adverbs are: ba\& and baibas 'backwards, back';
kumá 'again'; bánza 'in vain, foolishly'; máza and mázamáza 'quiekly'; dabim 'separately, by itself'; hália 'thus, in this way and manner.'

1. Of place: nan 'here'; tsán 'there, yonder'; dagánan, dagá ts̆an'here, at this place, there at that place'; so also, würi nan-tşan, küsa 'near ; ' nēsa 'far'; uōs̆e 'outside'; täre da 'together with'; éma and énda 'where and whence.'
2. Of time :-ábadá 'for ever'; dādaí 'heretofore, never before'; har, or hal 'until'; kāna 'before, than'; tun 'since'; tunda 'while, while as yet'; yán玉u'now'; yaúse 'when.'
(a) Compounds with da:-da-füri' at first'; du-baya 'afterwards'; da süfe 'in the morning'; and, da säfia ta yī 'when morning eame.'
(b) Compounded with Nouns:-lötu nan' that time, then'; säa nan' then'; sao-daia 'once'; ete.
3. Adverbs of manner:-ai and ainin verily, truly, really'; ašzé 'verily, truly'; dabuím 'differently'; káma 'as, like as'; sanú and sanú-sanú 'softly, quiekly.'
(a) Compounds with substantives:-by da, da dēdi' 'with peace $=$ peaceably'; da hárikali 'with sense, wisely'; da hánkiuri ' patiently.'
(b) With kō :-ko-háka ' any how'; kō-y(inzu 'even now.' Interrogative Adverbs have been mentioned above.

## Conjunctions.

Conjunctions may be divided into as many classes as there are connexions and relations affected by them; as, Copulative, Adversative, Causutive, Concessive, Exelusive, Comparative, Conclusive, ete.

1. Copulative Conjunctions. These are, da 'and'; kuá 'also '; kō'even'; ko-ko 'neither, nor'; da yánzu ba ni da uxa ko $\bar{u} b a$ 'and now I have neither mother nor father.' $D a$ connects two propositions when each proposition has its own subject; as, ni zāni tāfia ga kāsua, da kaí kua ka-na táfia; but ina tši, ina ša' I eat, I drink, not I . . . and . . . ni táfi, da ni tşe 'I go and I say.' Two or more predieates
of the same subject are not connccted by Copulative Conjunctions. Mutum ya-tūs̆i, ya-daúlii, ya-gúdu, ya-täfi, ya-
 da šanu, da āwaki, da tumaki. $D a$ at the beginning of a sentence is merely a connective particle, like 'but, now'; kua 'also, likewise'; i-na so-nsa, da şi kuá šina so-na. Kó 'even'; ko ni da kai-na ina táfia da káfa; kó-kó ' whether, or, neither-nor.'
2. Adversative Conjunctions:-áma or ámma 'but, yet, however, nevertheless' ; ima duba-wa, áma ban ganē-sa ba.
3. Conjunctions expressing cause, ground, purpose, and motives :-Don or don 'for, because, in order to, that, to'; and, liadá negative 'that not, lest'; doñ hálši-nka ba kima na-mu ne 'because thy speech is not like ours'; don ya sáni 'because he knew'; kalli en táfi har 'that I should not go until...'; doñ-wónan fa'for this reason therefore'; sábaldá wónan 'on that account, for the sake of' ; ya ba-ni dúka don wónan fa na yı̄ murna nayī kūka sábadá yäšia 'I cried because of fatigue.
4. Concessive :-kōda 'although, though '; kōda ta ke lièăokèāxa ba ta-da düliia 'although she is very beautiful she is not rich'; kōda na-sáni ba ši-bāda má-ni kúrdi-na, na-yí má-sa aiki.
5. Exceptive and exclusive Conjunctions:-bámda 'besides, except, and '; saí, saídaí. Mi ka-na so en sāwo mä-ka bámda wónan? sai saidai ' except,' but it has a great many meanings besides; bābu bāıa lio daía saí ni. Saí (but) ubā-na ya-ť̃e má-ni. Mu-n-kìrā-ka saídaí ba kia lz̄ī-mu ba. Sānia ta-na-bāka nōno da maí saílai (provided) ka-bā-ta tšiāea da yäura. Mútané saí (will be sure) su tāsi. Ni ba na so zūa gída-nki sai (all I want is) na-kāma yāro nan, etc.
6. Comparative Conjunctions:-káma, kámada 'as, like, like as'; húka and háliana or hálianan. Máka ši ke' so it is'; ba hália ba. Ki fadí hália. Ina fudá mä-la kamada alie-yī-ntuó. Fuska-nta fära láma-n-alli.
7. Temporal or Consccutive Conjunctions : har 'till, until'; ktt-šìra-ni har en záka; ' while,' la-rīke räku-ta har en táfi en tši tuo-na, har en dawroya. Tünda 'while'; ámma túnda
su-na râika bindiga-nsu dorina ya táf. Tínda mu-na nan naそ̌i a-ka-tše, kadả kī̀ca ya táfi ga bäki-n-rūa gōbē dla sạfe; na-támbayḕ-su, dómi, mútané kadá sū-táfi? su-ka-tše, en ka-gáni yāy(a-n-rüa nan kī̆ mútı. Tünda-deъca'long since.'
8. Conditional:-Kadén, (if) kadán ban- ťse ba kāria 'if I am not telling a story.'

## Art. XIV.-Buddhist Saint Worship. By Arthur Lillie, M.R.A.S.

A student of Buddhism cannot proceed very far in his inquiry without being confronted with a tremendous eontradiction. Perhaps I may be allowed here to speak from personal experience. I read Le Bouddha et sa Religion, by M. Barthélemy St.-Hilaire, and one or two well-known works; and soon learnt that annihilation (sûnyatâ) was the lot of the Saint when he had reached the Bodhi or Highest Wisdom, and freed himself from the cycle of new births. I then came across Sehlagintweit's Buddhism in Tibet, whieh contains a sort of litany called The Buddhas of Confession. In it is the following passage :-
"I adore the Buddha Sâ-la'i-rgyal-po. Once uttering this name shall purify from all sins of theft, robbery, and the like." This puzzled me. This being was a Buddha. In consequence he had suffered, or enjoyed, complete annihilation. Why then should the pronouncing the name Sâ-la'i-rgyal-po purify from all sins of "theft, robbery, and the like?" Then I remembered that in old religions very holy names like I.A.O., A.U.M., etc., had often got to be thought more potent than the God himself. I mention all this to show that I am not at all surprised at people clinging to the idea that the Bodhi in the earliest Buddhism meant annihilation in spite of the strong evideuee that can be brought against it. I myself for some time did the same.

But a further study of Buddhist litanies convinced me that my theory about holy names by no means met all the facts of the casc. I will write down a few cxtracts from their litanies:
> "I worship continually
> The Buldhas of the ages that are past,
> I worship the Buddhas, the all-pitifut,
> I worship with bowed head."-Ancient Ritual of Ceylon. ${ }^{3}$

[^58]

BUDDHA APPEARING AT THE ALTAR DURING WORSHIP.


BUDDHA APPEARING AT THE ALTAR DURING WORSHIP.
.
-
"All hail! Buddlas of the ten quarters."-Chinese Ritual.
"I adore the Tathâgata Ts'li-pag-med, who dwells in the Buddha region Derachan (Suklâvati or Paradise)."-Tibelan Ritual. ${ }^{1}$
"I have no other refuge;
Buddha is the best refuge!
By the truth of these words
May I conquer and win the rictors!
I bow my head to the ground and worship
The sacred dust of his holy feet ;
If in aught I have sinned against Buddha,
May Buddha forgive me my sin."-Ancient Ritual of Ceylon. ${ }^{2}$
"I regard the sacred altar as a royal gem. In the midst of it appears the Shadow of S'ikya Tathâgata." -Chinese Ritual. ${ }^{3}$
In the presence of these quotations, my theory about the potency of a mere name breaks down; for the Buddhas of the past that are supposed to be annihilated dwell in Sukhâvati; are able to forgive sin; are able to come down to the altar during worship. The Buddhism of the Sutras in their present form and the Buddhism of the Ritual are plainly irreconcileable. We are in the presence of two philosophies essentially antagonistic and interneciue. This fact seems to hare struck Eugène Burnouf, and he settled that the Saint Worship was an addition.

As far as our limited space will admit, let us examine this question, beginning with the Brahminism of the date of Buddha. If we accept Lassen's chronology on the subject, the non-Vaishṇava portions of the Mahâbhârata may be accepted as a fair guide here. It will give us a sketch of the creed that existed in India when the Buddhist movement occurred.

Readers of that epic must be astonished on first perusing it to find no mention of temples. Forests with Rishis or Prophets drelling in them, and performing the initiation of yoga under trees, are mentioned in almost every episode; but eren in the long descriptions of sumptuous towns religious edifices seem conspicuous chiefly by their absence. Alongside

[^59]of the Rishis and their forests, there is, however, the Tîrtha. What is a Tirtha? Our lexicographers tell us that it is a sacred tank. Col. Tod, who studied natives all his life amongst natives, calls it a shrine. At any rate, the Tîrtha was of dominant importance in the ancient religion, for we read thus of it:-
"It is the greatest mystery of the Rishis, excellent son of Bharata. The holy pilgrimage to the Tirthas is more important than sacrifices to the gods." ${ }^{1}$

In another verse it is stated that five nights' sojourn at the Tîrtha of Jambumârya is equal to the fruit of a Horse sacrifice. ${ }^{2}$ The Horse sacrifice was the most important of Aryan rites. A hundred performances of it raised the sacrificer to the level of Indra, the Supreme.

Assisted by the Mahâbhârata, let us try and make out what was a Tîrtha. Without doubt pilgrims bathed there :-
"May the pilgrim bathe, 0 son of Bharata, in all the Tirthas." ${ }^{3}$
Illustrious Saints resided in Tîrthas, the dead as well as the living. ${ }^{4}$ Kapila has his Tîrtha, the Rishi Matanga, ${ }^{5}$ the Saint Bhrigu. ${ }^{6}$
"Go where the greatest Rishis Valmîki and Kaśyapa, Kundajathara, the son of Atri, Visvâmitra and Gâutama, Asita Dêrala, Mârkandêja and Gâlara, Bharawâja and the Solitary Vaśishṭha, Uddâlaka, Saunaka, and his son Yyâsa, the greatest of ascetics, Durrâsas, the most virtuous of anchorites, Jârâli of the terrible macerations; go where these, the greatest of Saints, rieh in penanees, are waiting for thec." ${ }^{\prime}$
To gods, to dead saints, to ancestors, rites werc performed in Tîrthas. "The shining hero (Bhishma)," it says in one passage, "fcasted the anccstors, the gods. He feasted the Rishis after the manner laid down in the S'astras." ${ }^{8}$ All these passages occur in the book of the Mahâhhârata where King Yudhishthira, the cldest of the four sons of Pâụu, is enjoined to make a round of pilgrimages to the Tirthas.

[^60]We have shown that Tirthas were places of pilgrinage with tanks. They were also shrines of dead saints. Does this mean that they were stone circles and sepulchral mounds like the Stemis stones in Orkuey, like Avesbury, like Stonelienge?

I think this question must be answered in the affirmative for the following reasons:

1. The Western Aryas, the Norsemen, Goths, etc., in variably used the stone circles and the sepulchral mound (haug) for worship and also for burial.
2. In many parts of India these circles and mounds are still used by sections of the Hindoos, as an interesting set of papers by Dr. Stevenson in our Journal has shown.
3. These two institutions figure very prominently in Buddhism. And when one religion breaks away from another, it may make many changes, but must be credited with having retained a large number of the institutions of its parent creed. To dispose of the dead is a pressing need. This is scarcely the point at which a religious reformer would begin.

I think also that there are passages in the Mahâbhârata that bear me out.
" When King Suhotra governed this globe according to the laws of justice, columns of sacrifice and sacred trecs were planted about the surface of the carth (jalonnaient la térre, Fauche) in hundreds of thousands. They shone erery season with an abundant harvest of men and grains." ${ }^{1}$
"He offcred then, O most virtuous son of Bharata, an hundred solemn sarrifices, bidding gods and Brahmins. There were columns of sacrifice in precious stones and Chaityas (sepulchral mounds) of gold." ${ }^{2}$
" The Long-Haired God gave by thousands and millions columns of sacrifice and Chaityas of great splendour." ${ }^{3}$
It seems to me that these columns of sacrifice planted about by hundreds of thousands must be standing stones. Professor Whitney publishes the translation of a Vedic hymn

[^61]which shows that in the early days the body was buried without cremation.
"Forth from about thee thus I build away the ground, As I lay down the elod may I receive no harm; This pillar may the Fathers here maintain for thee, May Yama there provide thee with a dwelling." ${ }^{1}$
The sacred tree considered in the light of a shrine and place of worship is also prominent in the Mahâbhârata. Indeed the word Chaitya, usually applied to a sepulchral mound, is also used to designate the tree. "A tree in fact spread with leaves and fruits, if it be solitary in a village, becomes a venerable Chaitya, without successors, honoured with the offerings of all." ${ }^{2}$ In the narrative of which I am going to quote a passage, superstitious importance is plainly attached to it; for the heroes, when they find themselves in an enemy's city, at once run and demolish the sacred tree, probably to annul the charms and hostile influences of their enemy's household gods and patron saints.
"Then they (Krishṇa, Bhîma and Dhananjaya) rushed upon the splendid Chaitya of the inhabitants of Magadha, and smote it on the crest as they wished to smite Jarâsandha.
And with the blows of their great arms they felled that aneient tree, vast, firmly rooted, with airy top, respected by all, and ever honoured with incense and garlands." ${ }^{3}$

The sacred tree was plainly an important accompaniment of the Tirthas, for it figures in the description of those that Yudhishṭhira was advised by the Brahmins to visit.
"Where, as Brahmins tell, was born that Indian fig tree of which the causc is eternal?" This was at Gaya. ${ }^{4}$

At Yamounâ too it is announced : "There is the beautiful and the holy Tirtha, named the Dcscent of the Holy Fig Tree." ${ }^{5}$

Here is another passage: "Where the heroic sons of

[^62]Pându celebrated the Four Months' Sacrifice with dcep knowledge of the scriptures, at a place where grows the imperishable and great Indian Fig Tree." ${ }^{1}$

When Buddhism first emerges in history, it certainly starts with standing stones, and Tîrthas, and Chaityas, and holy trees. Let us see if there is any evidence of saint worship likewise. M. Burnouf thought there was not; but he wrote before the discovery of the Stûpa of Bharhut.

In the British Museum, as you are aware, are the marbles of the Amarâratî Tope. I see strangers, with puzzled look, stop before certain tablets that represent marble worshippers crouching before a small throne or table placed before a marble tree. On the altar are often two footprints. Other inquirers have been equally puzzled. But the recent exhumation of the remains of the Stupa of Bharhut has placed the meaning of these emblems beyond the region of controversy. Similar designs have been there discovered, and they are furnished with explanations incised in the Palli character. One, it is said, is the throne and tree of Kasyapa, another the throne and tree of Kanaka Muni, and so on through the list of the Seven Great Buddhas. Every great Buddha has his tree and his worship. And here I must inention a curious piece of Chinese-puzzle adjustment, which shows how closely the ritual fits the ancient temple and the temple the ritual. In vol. xvi. of the Asiatic Researches, Professor Wilson gives a ritual from Nepâl, called the Praise of the Seven Buddhas. ${ }^{2}$ Each Buddha is "adored" in a separate paragraph, and it is announced that he found emancipation under a special tree. Comparing the list of these trees with that of the Bharhut Stûpa, as given by General Cunningham, ${ }^{3}$ we find that five of the trees exactly correspond. The sisth, that of Viswabhu, is obliterated. Sàkya Muni's tree in one list is the Aśattha and in the other the Pippala, synonyms I believe for the Ficus religiosa. This seems to gire great antiquity to the litany.

[^63]"Glory to the Arhantas! Glory to all Saints !" says the Khandagiri roek inscription.
"Furthermore the people in the night shall attend the great myrobolan and the holy fig tree," says the Delhi Pillar.
"In the middle of the village or in the forest, on oeean or land, wherever the Saints eolleet, full of joy is that plaee." Thus Buddha in the Dhammapada.
"I bow in adoration to those bosom-reared sons of Sugato, who overeame the dominion of death (Mâro)." Buddhaghosa's invoeation to the "three treasures" at the eommeneement of his A ț̣hakathî.

Let us try and restore this saint worship. The early Chaitya was a rude sepulehral mound, plaeed in a jungle if one was available. Round it were erected a few monoliths; and one or two large trees were appropriated. The living saint sate under a tree on a Bodhimandi, a rude stool probably in the first instance. This beeame the altar of the dead saint. Ineense was offered upon it, we see this from the seulptures; food too, on one altar is what I take to be a globular rice pudding about the size of a football. Garlands were hung on the branches. Other offerings are in the hands of the worshippers, probably the seented water whieh from time immemorial in India was the drink of the ghosts, and whieh in Buddhism is still used. I now eome to a pieee of evidence whose importanee I had not appreciated when I wrote my work Buddha and Early Buddlhism.
"I regard the saered altar as a Royal Gem. In the midst of it appears the shadow of Sâkya Tathâgata." P'l. A. is portion of a senlpture that I have roughly copied from the Amarâvatî tope at the British Museum. Here we have Buddha in person eoming down to the altar at the moment of worship. Eaeh Buddha in the Ceylon scriptures has two favourite disciples, and here we see them. The women who are ereet are the Apsarasas or nymphs of Indra that are always by him in the Lalita Vistara. The worshippers are distinct ; they are erouehing and humble. On the apparition of a beatified Rishi in tho Mahâbhârata folks fling themselves in the dust, and join the palmes of the hands near the
forchead. The beehive-looking object I take to be an incense burner. In Pl. B. we have Buddha once more under similar conditions.

Here I must point out an inspiration, a very happy one, that has recently come to Mr. Franks, Vicc-President of the Society of Antiquaries, who has recently delivered a lecture. He has becn studying the Amarâvatî marbles at the British Museum, and has come to the conclusion that the imprints of feet so numerous in the early Buddhist temples are designed to typify the presence of Buddha. I think this is very important.

But at this point our conclusions diverge. Mr. Franks is of opinion that these appearances were limited to the actual earth-lifc of the great Tathâgata. I hold that these footprints typified the presence of the beatified Buddha. And superficially, at any rate, this seems the most common-sense view. Buddha's followers were chiefly poor men, slaves, Magdalens, savages, in whom the spiritual faculty had just been awakened. And to a sarage, as in the case of Man Friday, a footprint of a mortal would suggest, not that the mortal was present, but that the mortal was decidedly absent. But when the hero of Lord Lytton's The Mranters and The IInunted saw the footprints of a ghost, he was convinced that the ghost was present-unpleasantly so. I cannot really see how in the Buddhism of Sûnyatâ, the Buddhism of Nothingness, the footprint theory can work. Supposing that we grant that the devotees were worshipping the footprints of Sâkya during his earth-life, what about the six other mortal Buddhas who were with him simultaneously worshipped in a tope? Each had his tree, his altar, his imprint of footsteps. They could not all be supposed to be alive together, for the one preceded always his immediate successor by many thousand years.
"I bow my head to the ground and worship
The sacred dust of his holy feet."
These words are perhaps being chanted in Ceylon at the very moment I am addressing you. They cannot refer to Buddha during his earth-life.

I might mention too that the doctrine of pure and absolute nothingness (Sûnyatâ) is not all that a disciple of Schopenhauer would desire. There are, as Mr. Hodgson ${ }^{1}$ tells us, a Sûnyatâ, and a Maha-Sûnyatâ. We are dead. You are a little Nothing. But I am a big Nothing. Also there are eighteen degrees of Sûnyatâ. ${ }^{1}$ You are annihilated, but I am eighteen times as much annihilated as you. It is possible that the framers of the doctrine meant something different from what the moderns suppose.

In a short paper it is of course impossible to take up all the points that bear on this great question. Did space permit, I could show you from the Lalita Vistara that the Buddhas of the past, far from conceiving themselves annihilated, crowd round the Prince at every turn of the story and act as his guardian angels. I could show, too, that the aunals of Cingalese Buddhism, if properly ransacked, by no means bear out the theory that is popularly evolved from them. All this would require not a paper, but a book-a book far larger than the one I have written on the subject.

Saint worship is the religion of India when Buddha appears on the page of history. Saint worship is his recorded teaching. Saint worship is on the earliest monuments. The Buddhist temple is an apparatus of saint worship, and saint worship its only ritual. Saint worship is the key of the Buddhist emblematology ; and the Buddhist cosmology is the Brahmin cosmology adapted to saint worship. The Buddhist Pantheon is a cohort of saints. Between this saint worship and the doctrine of Sunyatâ there is a great gulf fixed; and one of these antagonistic elements has plainly been foisted on the other. Either a complicated and harmonious religion, with its temples and rites and symbols, has been foisted on the muddled doetrine of Sunnatâ, or the muddled doctrine of Sûnyatî has beeu foisted on the vast and complicated religion.

[^64]Art. XV.-Gleanings, from the Arabic. By H. W. Freelant, MrA., M.R.A.S.


## The Gentle Friend. ${ }^{1}$

If I faults in friend discover, Find him not in acts the same, I, by friendship moved, pass over What in him provoketh blame. What a friend of evil doeth I to him will never do;
Fault which unto him accrueth
I with grace indulgent view. To a friend's defects the blindness Of a friend is friendship's part, Friendship this preserves through kindness Worthy of a noble heart.

[^65]

## Translation.

0 Tomb, hath beauty vanished from his brow?
Form young and fair, and hath it changed so soon?
Nor dewy mead, nor spangled vault art thou,
Yet covetest fair branch and radiant moon!

## Latine redditum.

O tumule! ingenuam frontem lux alma reliquit?
Deserit heu! nati mollia membra decus !
Non sunt prata tibi, neque cœlum aut lumina cœli-
Fulgentem lunam tu salicemque cupis?

> Auf Deutsch.

Du Grab, sind seine Blüthezeit und Jugend schon verschwunden,
Erblcicht die liebliche Gestalt in schweren Todes stunden?
Die Pracht des Himmels kann'st du nicht, der Wies' auch nicht entfalten,
Willst gierig doch den Mondenglanz den grünen Zweig behalten.

Art. MVI.-Al Fïhirah and its Gates. By II. C. Kay, Esq., M.R.A.S.

On the occasion of a recent visit to Cairo, I occupicd myself in an endeavour to copy the Cufic inscriptions on the Bab en Naṣr. I only partially succeeded, but what I have been able to decipher is sufficient to show that the inscriptions are of somewhat more than ordinary interest. As far as I am able to discover, they have never been published, -a sufficient excuse, I hope, for offering the Socicty the imperfect results of my attempt to perform a task, which some other student will perhaps be induced to take up and complete.

The three well-known monumental gates at Cairo, of which Bab en Naṣ is one, are closely connected with the question of the origin and early history of the city itself. There exists on these points, as it has long seemed to me, a misapprehension so general, that I may perhaps in the first place allow myself to direct attention to it.

According to the commonly believed version, Jauhar, the commander of the army of Al Mu'izz, after wresting Egypt from the supremacy of the Khalifate of Baghdad, and subjecting it to the rival dynasty then reigning at Kairawan, proceeded to trace out and lay the foundations of a city, designed to serve as the new metropolis of Egypt and of the Fatimite Empire.

In point of fact this is by no means strictly correct. There exists, it is true, a certain laxity of expression on the part of the generality of Arab chroniclers, in their brief notices of the subject, which is doubtless the chief cause of the error. Here and there isolated passages may be found, even in Al

Makrizi himsclf, that may seem to eountenanee it. But his narrative of faets is elear and consistent, and ean leave no room for doubt as to his real meaning. Jauhar, he tells us, ereeted a fortified inelosure containing a place of residenee for the Khalifeh, the diwinns, or principal government offiees, and quarters for the garrison intended for the defence of the fortress. He is eareful to add that its site was selected for the express purpose of eovering the approaehes to the city of Miṣ and of defending the eapital against attacks by the Carmathians. ${ }^{1}$ With that object the strength of the position was inereased by the construction of a double line of ditches, extending from the Mukattam Mills to the old eanal of 'Omar ibn al Khattãab, by whieh, and by the Nile beyond it, the fortress was proteeted on the west.

Jauhar's defenees were put to the test by two suecessive invasions of the Carmathians. The first in A.H. 361 (A.d. 972 ), less than three ycars after the eommencement of the fortress. The enemy was repulsed on both oceasions, though it must be eonfessed that on the seeond, in A.н. 363, the final suceess of the Fatimis was due, not so mueh to their valour, or to the strength of their fortifications, as to a bribe, with whieh they won over one of the allies of the Carmathians, and whieh they paid him in fulse coin! ${ }^{2}$ The Carmathians were both times, however, held in eheek at 'Ayn esh Shems or Heliopolis, and although the neighbouring country suffered severcly at their hands, the eity of Miṣr was effcetually protceted by the Imperial citadel of Al Kainhirah in its front.

There is nothing to show that either Jauhar or his master, in building the latter, intended or even foresaw what afterwards happened. There is, on the eontrary, mueh that may serve to prove that the foundation of a new eity, in the ordinary sense of the word, was aetually opposed to their intentions. But the population of Miṣr, at a subsequent period, gradually removed to the immediate vicinity of the Imperial stronghold, and eventually, but not until after tho

[^66]extinetion of the dynasty in A.H. 567 (A.D. 1171 ), overflowed into the Imperial inelosure itself, the original purpose of which then soon fell into oblivion. ${ }^{\text { }}$

The ground inelosed by Jauhar was about three-quarters of a mile in length, and slighty over half a mile in width. Its principal buildings were, in the first place, the two Imperial palaees. One, the Eastern or Great Palaee, composed of a multitude of buildings, was the place of residence of the Khalifeh, of his harim, and of his numerous slaves and followers. Of its extent we may form some idea from the statement, even if it be suspected of exagreration, that at the death in A.D. 1171 of the last Khalifeh al ' $\bar{d} d a d$ li din Illah, the palaee was found to be inhabited by twelve thousand persons, all, excepting the Khalifch and members of the Imperial family, either eunuchs or women. The Small Paluee, as it was ealled, served for purposes of recreation, and overlooked gardens and pleasure grounds, extending to the western walls, that ran parallel to the old and still existing eanal. Close to the Eastern Palace was the Imperial Mausoleum, in which Al Mu'izz deposited the remains of his ancestors, which he brought with him from their places of sepulture in the west. Further south was the Mosque, also built by Jauhar, in which the Khalifeh, as Imam of his subjects, condueted the Friday's prayers. The palaces reeeived the name of $K u s \bar{u} r e \approx Z \bar{a} h i r a h$, the Splendid Paluees, and the Mosque that of Al Azhar, the Most Splendid, which

[^67]it still retains, and under which it has long been widely known as the great seat of Muhammadan learning, frequented by students from the most distant countries of Islam. In addition to the garrison's quarters, many other buildings are enumerated, sufficient to account for the remaining space ; such were the treasury, mint, library, audience halls, arsenals, provision stores and Imperial stables. Several open spaces were moreover reserved, one of which alone, called Bayn el Kasrayn, Between the tuo Palaces, a name retained by the street that now leads over the site, was large enough to contain a force of 10,000 men.

A jealously regarded object in the construction of Al Kāhirah was, as Al Makrizi tells us, the strict seclusion of the Khalifehs from the sight of their subjects. Within its walls, a subterranean passage was formed, as a means of communication betwcen the two palaces, through which the Khalifeh could pass to and fro, unseen even by the few whose presence within the fortress was permitted. No person was allowed to enter the walls of Al Kaihirah but the soldiers of the garrison and the highest officials of the state, whose greatest privilege was that of approaching the sacred person of the Khalifeh. Ambassadors from foreign states were obliged to dismount at the gates of the fortress, and were conducted thence to the audience hall on foot. ${ }^{1}$

In this condition matters remained for fully a century, when, in the reign of Al Mustanșir Billah, the ravages caused by civil war, faminc and plague extended ceen to the precincts of the palace. The Empire itself was on the verge of destruction. It was rescued, by the fidelity and ruthless energy of the Amir Badr al Jamaly, from the military factions by whom the country was ravaged and plundered, and in whose hands the Khalifeh himself was little better than a

[^68]helpless prisoncr. Badr al Jamali became, under the name of Wazir, the virtual ruler of the Empire, which under his administration soon recovered its former splendour. Many buildings within the Imperial inclosure had fallen into decay and some into utter ruin. One of the Amir's earliest acts was to give permission to certain ehosen persons to bnild upon their sites. But it was not, as I have already said, until after the extinction of the Fatimi Khalifatc, and after the removal of the seat of government and residence of the new dynasty of Saladin to the "citadel on the hill," that Al Kinhirah was gradually absorbed and lost, in the city that had begun to grow up under its walls. Al 「̄āhirah, says Al Makrizi, then fell from being a stronghold and Imperial residenec to the condition of an ordinary city and place of gencral
 a contre of honour it sank into abascment, from reverence into eontcmpt. ${ }^{1}$

It is not without interest to remark that the foundation of Al Kähirah, for the purposes deseribed, appears to have been simply in aecordance with the already established usages of the Fatimi Court. Al Manṣurieh, the creation of the Khalifeh Al Manṣur Billah, was doubtless the prototype of Al Kāhirah. It was founded in A.if. 336, close to Kayrawan, but, unlike its successor in Egypt, it neither becamc the nueleus of a new city nor did it supersede the ancient capital ; but it has, on the eontrary, itself disappeared.

I may add, with reference to the position of Al Manșurieh, that Ibn Khallikan is clearly in error when stating, in his biography of Al Manṣur, that Al Manṣurieh was built on the site of the battle that resulted in the eapture of Abu Yazid. It may be, however, that the author refers to a series of obstinately fought contests that took place under the walls of Kayrawan, more than a year, it is true, before the final defeat and capture of Abu Yazid, but by which the latter's power was irretrievably broken up. ${ }^{2}$ In one of the notes

[^69]appended to his translation of the biography of Al Mu'izz, M. de Slane quotes Al Bakri's description of North Africa, to the effect that Al Manșurieh occupied the site of a suburb of Kayrawan, of the name of Sabra, though the statement seems difficult to reconcile with the words of the text, in which Sabra is spoken of as existing in the reign of Al Mu'izz. ${ }^{1}$

Both Al Manșurich and Al Kāhirah receive from Arab writers the designation of Medinah, or city, which, in the. case of the latter, is justified by the inscription on Bab en Naṣ. But the word 'city' must obviously be understood in a restricted, and not in its ordinary sense.

It may perhaps be regarded as something more than an accideutal coincidence that Jauhar gave the new Egyptian residence of the Khalifehs the name of Al Manṣurah, The Victorious, so similar in sound and meaning, if not in actual derivation, with the designation of the Imperial residence in the West. ${ }^{2}$

On his arrival in Egypt, Al Mu'izz changed the nanc into Al Kāhirah, The Suljugutor. The citizens, however, when they removed to the neighbourhood of its walls, continued to give to their now home the name of the old capital, Misir, and still do so to this day, distinguishing what little remains of the latter by the designation of Old Miscr. The namc Al Kaihirah, owing to its conveying a sense of subjection to violence and arbitrary power, has always becu unpopular, and is still regarded by the pcople of Egypt with half-superstitious dislikc. ${ }^{3}$

[^70]With respect to the derivation of the name 11 Kīhirah, Abu'l Mahasin ${ }^{1}$ says that, aecording to some authorities, this designation was originally only that of one of the domes or halls of the palace. The remark follows his account of the well-known tradition, which he say's contains the more generally received version of the origin of the name.

The tradition is related also by Al Makrizi, but with little pains to eoneeal the small degree of eredit he attaches to it. The foundations, in consequenee of a suffieiently incredible accident, were said to have been commenced, not at the propitious hour intended by Jauhar's astrologers, but at a moment when the planet Al Mirikh, or Mars, sumaned by the Arabs Al Kahir, was, with its evil influenees, in the ascendant. Hence, it was said, the city received the name of Al Ḳāhirah. ${ }^{2}$

Three of the old gates of Al Kāhirah, as I have mentioned, are in existence to this day. Two on the north, Bab en Naṣr, the Gate of Vietory, and Bab al Futuh, the Gate of Conquests. On the south is Bab Zuwayleh, or more correctly according to the anciont orthography, Bab Zawilah. It derives

[^71]
"Thy decrees are nought but the irresistible will of Fate.
Command theu, for thon art the One Mighty Subduer."
An account of the life of Ibu Hani is given by Ibn Khallikan.
its name from a tribe who occupied a suburb of Al Mahdieh, one of the sea-ports of the modern Regency of Tunis, built by 'Obayd Allah al Mahdy, the founder of the Western Ismaily or Fatimi dynasty. The Zawilahs furnished a corrtingent to Jauhar's army, and the quarters assigned to them, on the foundation of Al Kăhirah, were in the neighbourhood of the Southern Gate.

The three existing gates, though they have retaincd the old names, are not those built by Jauhar. They were erected by Badr al Jamāli about A.D. 1087, when he rebuilt the walls of Al Kāhirah and somewhat enlarged its limits. They do not consequently occupy the actual sites of their predecessors. The Bab Zawilah of Jauhar stood some distance to the north of the present gate. It consisted of two arehes, standing side by side, through the easternmost of which Al Mu'izz made his public entrance into the new Imperial residence in Ramadan, A. н. 362 (A.D. 973 ), three years after its construction had been commenced. The western arehway, from that early date, fell under the evil repute of being unlucky, a superstition which, long after it had disappeared, continued to attach to the spot upon which it had formerly stood. The twin gateway was still in existence in the fifteenth century, under the name of Bab el Kaus.

Respecting the present gate of Badr al Jamali, a tradition is mentioned by $\mathrm{\Lambda l}$ Makrizi that its architcet was one of three brothers, who came to Egypt from Ar Ruha, and that Bab en Naṣr and Bab el Futuḥ were each respectively built by the other two.

Ar Ruha, the modern Urfah or ancient Edessa, was accordiug to Ibn al Athir besieged and eaptnred from the Byzantines in A.H. 479 (A.D. 1086) by Malik Shah. ${ }^{1}$ Its strongly built fortifieations and the magnifiecnce of its churches are elsewhere alluded to by the historian. ${ }^{2}$ It scems not unlikely that Greek or Armenian refugees from Edessa may have found their way into Egypt, and the stylo of arehitceture and construction of the three gates, but especially

[^72]of Bab en Naşr, are in some degree consistent with Al Makrizi's statements. ${ }^{1}$
Bab Zuwaylah is spoken of by Arab writers in terms of the highest admiration. Its hinges were said to turn on glass soekets. A person who had travelled mueh, and who had seen all the eities of the Eust, says Al Makrizi, assured him that nowhere had he beheld a more majestie gate, or anything to be eompared to its two towers. Modern visitors, without questioning the praise to whieh Bab Zuwaylah is indeed well entitled, must perhaps hesitate before they grant it the palm over its two contemporaries. It is indeed one of the noblest buildings in Cairo, but the coarse plaster and paint with whieh it is daubed must sorely detraet from its original appearanee. The round towers on either side, we are told, were originally mueh loftier, and were lowered when the Sultan Al Mu-ayyad surmounted them with the two minarets for the mosque he built in A.D. 1416, and whieh adjoins the gate on its western side. ${ }^{2}$

A simall portion of the plaster a few years ago beeame detaehed, and dropped from the stone above the arehway.

[^73]A few letters of the Cufic inscription became visible, but they were soon agrain covered up.

Bab en Nassr and Bab el Futūh are on the north of the city. They stand about two hundred yards apart, only separated from one another by the ruined mosque of Al Ḥākim b-imr Illah.

Like Bab Zuwaylah, they do not occupy the sites of the original gates of Jauhar. When rebuilt by Jauhar, they were removed to their present position, so as to inclose the mosquc which Al Häkim built outside the walls. Bab el Futuh has no inseriptions.

Bab en Naṣr is remarkable for a brackcted cornice and frieze, decorated with beautifully executed Cufic inscriptions. They are carried along the face of the gateway, and along the faces and inner sides of the two massive square towers, with which it is flanked, at rather more than half their height from the ground.

Within the arch, and above the lintel of the rectangular doorway, an oblong tablet is sculptured upon the stone, containing the following words:

$$
\begin{aligned}
& \text { بسم الله الـرحمش الـرحيم لا الله الا }
\end{aligned}
$$

$$
\begin{aligned}
& \text { رسول الله علـّ ولـّ الله }
\end{aligned}
$$

In the name of Gorl, the Compassionate, the Merciful. There is no other god but God, Alone. None is associated unto Him. Muluammad is the Apostle of God. 'Aly is the favourite of God.
Below the tablet, and on the face of the flat relieving arch over the lintel, the following words are added :


> May God bless them both, and also the Imams their seed.

Egypt, finds himself between two alternatives: if rieh, he is squeezed and plundered, and there is no happy release from his miseries but by flight; if poor, he is east into prison, and kept there until required for service in the fleet. Such is a glimpse into life at Cairo in the thirteenth century

Ibu Sa'il, himself a Spanish Moor, is largely quoted by Al Makkari in his Fitab Naflit t Th. Ilis extracts comprise Al Makrizi's quotations, of which the above is a summary (Bul. ed. vol. i. p. 497 et sqq.). Ibn Sa'id arrived in legyt in A.h. 639. An account of his life and writings is included in the work of M. de Gayangos.

The inseription on the frieze, along the face of the gateway, is as follows, commeneing, however, with the five words given below, which immediately precede it on the same line, but which are inscribed on the inner side of the western tower, following immediately after the verses from the Kur-inn, noticed further on.

I omit the diacritical points of words I have been unable to decipher, or of which I feel doubtful.

. . . God the Great, the Mighty . . . . . . . . . the city of Al Kahirah the Mu'izzite, the protected, may God guard it, by command of our Lord and Master the Imam al Mustanṣir Billah, Prince of the Faithful, the Farour of God be upon him, on his pure forefathers and on his noble descendants. ${ }^{1}$ Adificavit hoc

The inscription is continued, on the inner side and front of the eastern tower, with the pompous titles of the Amir al Juyūsh Bedr al Jamili, as follows:




the Commander of the Armics, the Sword of Islam, defender of the Faith, protector of the Judges of the Muslims and guide of the Leaders of the Faithful, Abu'l Nijm Badr el Mustansiri. May God aid through him the Faith, and by the length of his days grant comfort to the Prince of the Faithful the year 480.

[^74]The inscription on the western tower is the Ayat el Kursi, or Throne Verse (Kuran, ii. 256) :

God! there is none other God but He, the Living, the Watchful. Drowsiness hindereth him not (in his care of the Creation) nor sleep. Unto Him belongeth that which is in the heavens and that which is on earth. Who is there (of his creatures) shall intercede with Him excepting by his permission? He knoweth their past and their future, and they encompass nought of his knowledge but that which he pleaseth. The extent of his throne is that of the heavens and the earth. The preservation of either is no burthen unto him, for He is the Most High, the Most Great. ${ }^{\text { }}$

The inscriptions on Bab en Naṣr are the only remaining memorials in Egypt of the fact that the Shia'i heresy, now and for many centuries past regarded with detestation, once reigned supreme in the country. It is no doubt chiefly owing to the disuse and general ignorance of the characters in which they are written that we may attribute their preservation. A profession of faith which declares of 'Aly that he is the exclusive ualy or favourite of God, and in which an invocation for special divine favour is made for him in terms applied to none but a prophet, is in the eyes of a Sunni Muslim a proclamation of gross heresy. But a thing utterly abhorrent to him is the attribution of that sacred formula, not merely to 'Aly the son-in-law of the Prophet, but also to a race of usurpers, whom the orthodox heads of Islam have denounced as impious impostors, men of ignoble birth, the descendants, not of the Prophet Muhammad and his daughter, but of Magians and Jews.

[^75]In the translation of the verb $\dot{\dot{\prime}} \dot{l}$, I have followed the sense iudieated by Ibn 'Arab Shah, who borrows the phrase in his Fakihat al Kilulafa, and writes (Bulak ed. p. 141).

The assumption of the formula in question by the Fatimi Khalifehs, so far as I am able to discover, is not specifically mentioned by any Arab historian, and the inseription on Bab en Naş is now the only one in the country from which the fact can bo proved. Certain passages in Al Makrizi's Khitat may, however, be quoted in support of it, and as indicating that the words were assumed by all the Khalifehs of the dynasty, probably from its earliest times.

Thus in his account of the life of Jauhar, Al Makrizi quotes. a minute, written in the alliterative style of rhyming prose, so much admired by Eastern writers, which Jauhar on a certain occasion appended to a petition presented to him at Al Kīhirah. It consists of bitter reproaches addressed to the persons concerned in the case and ends with the words :-

Let the Prince of the Faithful, the Blessings of God be upon him, decide what shall be done unto you.
ليرى انير المؤنـير صلوات الله عليه رائه فيكم

Again, in deseribing the forms observed in the Majlis an Nazri fil Mazalim, the Court for the redress of grievances, Al Makrizi says that on the statement of the case being returned with a note in the handwriting of the Khalifeh, it was the practice of the Wazir to write the following words below the Imperial deeree:-

Let obedience be shown to the command of our Lord the Prince of the Faithful, the Blessings of God be upon him.


We know also that in the form of Khutbah instituted by Jauhar, the invocation for God's special blessing or favour was applied, in general terms, to the Imams, descendants of 'Ali and Fațimah, but this was little more than is continually done by orthodox Muslims, in the case of the family and companions of the Prophet.

I have recently, however, met with another and somewhat unexpected confirmation of the fact recorded by the inserip-
tion on Bab en Nassr. Among the objects included in the Exhibition last year of Mispano-Morisco Art at South Kensington, was an ivory casket belonging to the National Archæological Museum of Madrid, described in the catalogue as being of the eleventh century and as having been procured from Carrion de los Condes, in the Spanish province of Palencia. The Cufic inscription on the lid of the casket, of which the following is a copy, shows that it is in point of fact a century older in date, and that it was made at Al Manṣurieh for the use of the Khalifeh Al Mu'izz : -


In the name of God the Merciful, the Gracious. Victory from God and speedy eonquest unto the servant and favourite of God Ma'add Abu Tamim, the Imam al Mu’izz (li din Illah), Prince of the Faithful, the Blessings of God be upon him, on his excellent forcfathers and on his pure seed. One (of the eabinets) he hath commanded to be made at Al Manṣurich.
The titles Kafi Mudat il Muslimin ua Mady Du'ät il Muminin, which we find in the inscriptions on Bab on Naṣ, are mentioned in the short life of Badr al Jamali given by Al Makrizi. ${ }^{1}$ They were bestowed, he says, upon the Ainir, on his appointment as Wazir of the sword and pen, wielding supreme authority over the Kadis and Du'ät or Da'ys. The latter were missionarics employed in teaching and spreading the doctrines of the Ismaili seet, and their chief was styled Da'y ed Du'at, the Da'y of Da'ys. It seems probable that the word is the origin of the title of Dey, by which the rulers of the province of Algiers have been designated by Europeans.

Within the archway of Bab en Nass an inscription is carved on the western wall, which at a first glanee is seen to

[^76]belong to a much later date than that of the building itself. The following is a copy :-

 ,

As commaniled by the noble and exalted Vicegerent of this illustrious Empire, Sudūn es Seyfi, in respect to dues upon eamels, upon each shall be levied five; and cursed be he that shall lery a larger sum, or be the cause of oppression in the days of this righteous government.

There is no date, but the inseription is in the ordinary Naskhi character and the title given to the author of the decree, Naib es Saltanah, Vieegerent of the Kingdom, is one that belonged to the period of the Mamluk Kings of Egypt. Under their rule the office of Wazir was only nominally retained. Its functions, excepting in the reign of Al Malik en Naṣir, were exercised by the Naib es Saltanah, who, in the words of Al Makrizi, was virtually the second sovereign of the Empire, which he ruled in his master's name. The powers of the Wazir, on the other hand, had meanwhile fallen so low, that one who held the office was able to complain, with but little exaggeration, that its highest duty had become that of purchasing provisions and fuel for the use of the palace. In the course of time, however, the office of Naib es Saltanah shared the fate of the Wazirate. It was abolished about the middle of the reign of the Sultan ez Zahir Barkuk (A.d. 1382-1399), and its functions were divided among the ehiefs of subordinate departments.

For the purpose of identifying the name of Sudūn, I had recourse to the comprehensive pages of Al Makrizi, with a confidence that was speedily justified. I find, in fact, that Sudun was the name of the Naib es Saltanah in the reign of Barkuk, and that he was the last to hold the office with its full powers. The surname As Seyfi is rendered Ash Shéykhi, but the latter, it cannot be doubted, is an error of
transcription. The date of the inscription may, therefore, be placed between a.D. 1382 and 1390.

The denomination of the coins, of which five were to bc paid on each camel, is not expressed. We may perhaps supply the word fulus. We know, in fact, both from Al Makrizi's treatise on Muhammadan coins and from the Kitab al Khitat, ${ }^{1}$ that copper was coined in such large quantities in the reign of Az Zahir Barkuk, that it drove both silver and gold out of circulation. The value of all commodities, and even that of gold dinars, was expressed by its equivalent in copper. The confusion and hardship thus occasioned were not effectually removed until the reform of the coinage introduced by the Malik al Mu-ayyad in A.f. 817.

The stone walls inclosing the city of Cairo, properly so called, were commenced by Saladin in A.H. 566 (a.d. 1170 ), whilst Egypt was still under the nominal rule of the last Khalifeh Al 'Aḍad li din Illah. The work was continued after the death of the Khalifeh in A.H. 567 by Buha ed din Karakush, the Egyptian minister of Saladin, by whom also the present citadel was built on a spur of the Mukattam Hills. The eastern walls of Al Kāhirah were prolonged southwards, so as to include within their circuit the large space of ground between Bab Zuwaylah and the new fortress on the hill. From that point they were to have been continued in such wise as to inclose the ancient city of Miss, and thence to run northwards along the banks of the river, which, it will be remembered, has materially changed its course since that period. The exccution of that portion of the design was intcrrupted by the death of its author, and was never afterwards resumed.

An interesting memorial of the builders of the citadel exists on one of its inner walls. Within a projecting quadrangular niche, surmounted by a plain cornice, stands an eagle, sculptured on the stone in high relicf. The figure is now, and has long been, headless, but its resemblance in almost every detail to the represcitation of the double-headed

[^77]eagle on Ortoki coins, and more particularly to that on the coins of the Atabek 'Imad ed din Zenki of Sinjar, is very striking. An engraving of the figure is moreover given by M. Prisse do Arennes in his work L'Art Arabe, in whieh the eagle is represented with two heads faeing in opposite directions. It would be interesting to know at what time the original drawing was made.

The author writes that the double-headed eagle was the rank or armorial badge of Saladin. ${ }^{1}$ I have not sueceeded in finding the authority upon which the statement is founded, but aceepting it as correct, it seems hardly possible to resist the conclusion that the eagle on the coins of 'Imad ed din represents his recognition of the suzerainty of the early Ayyubi princes.

[^78]

Art. XVII.-How the Mahábhárata ${ }^{1}$ Begins. By Edwn Arnold, C.S.I., M.R.A.S., Officer of the White Elephant of Siam.

The following pages offer an imperfect and unpretending analysis of the opening portions of the Great Indian Epic, the Mahábhárata; with a free version here and there of striking passages, and in most of these instances the Sanskrit text. So cumbrous an introduction to the mighty Poem was, perhaps, compiled in days long subsequent to those of the finer sections of the Epic. It seems principally directed to the exaltation of Brahmans, and the glorification of Royal and Saintly Pedigrees; but a closer study-as, for example, of the long catalogue which occurs in the description of the Serpent-People-would probably give useful results to ethnology and geography.

The Calcutta Edition of the Mahábhárata, in four quarto volumes, commences thus:-

To Narayen, Nara, best of males, give heed;
To great Saraswati be paid her meed, So shall this Story worthily proceed. ${ }^{2}$

After prefatory matter, the text begins: Ugrasravah, or
Sauti, the son of Lomaharshana, Came to the sages in the Naimish Wood, What time they wrought the twelve-year sacrifice For Saunaka. He, learnëd in Purâns,

## श्रीमहाभारतं

 ॥ 尹्रादिपर्व्व n

Lach Parva of the Mahábhárata opens with this, or a similar, dedicatory verso.

Folded his hands before them, and said this-
"What will ye that I now discourse to you?"
The Sages desire him to discourse upon "Yoga," but observe that the wise and holy Saunaka is at present in the house of Sacrifice. As soon as he takes his seat, the "Paurâniko" may fitly begin. The great man euters, and, saluting the narrator, wishes to hear from him of Bhrigu's family. Me recites the pedigree of Bhrigu. Saunaka himself was grandson of Samika, who was the son of Kuru, who was the son of Pramati, who was the son of Chyavana. Saunaka asks to know respecting this last named. The son of Suta relates how Bhrigu's wife, Pauloma, being advanced in pregnancy, was desired by a Rakshasa Pauloman, who, after appealing in vain to Agni in regard of a prior claim which he makes to her, attempts to carry her off in the shape of a boar, but her child Chyavana, being suddenly born, withers the demon to death by his dazzling aspeet. Bhrigu was very angry with Agni for the partial information given to the demon, and "cursed him to be the decourer of everything." ${ }^{2}$ Agni, in turn, is incensed at this serious act. The god said :

What is this outrage, Brahman, thou hast wrought?
I follow rirtue, and I speak plain truth !
Where was thy wrong in that I answered fair
Thou absent? He who beareth witness false
And he who, knowing truths, forbeareth it,
These men shame all their ancestors in bliss
To the seventh degree, and to the seventh degree
Infect their seed. I, too, the God, might curse
Who curses me, but that I reverence
A twice-born. Hear me jet, though thou may'st know,
By yoga I diride me manifold
Dwelling in all formed things-not flame alone,

## ${ }^{1}$ लोमहर्षएपुन उग्रश्रवा: सौति पौराएएको नैमिषार एये । शौनकस्य कुलपतेद्वादश्रार्षंके सने। etc. <br> ${ }^{2}$ शूश्रापा ग्निभतिक्रुड्घ: सर्व्व म्चोभविप्यसि

But that whieh flames, the saerifiee, yea, that
Whieh offereth it, man's aet. Therefore to me
Oblations fitly made soothe Gods and Shades,
By me their worship passeth at due times;
At the full moon to Gods, at the new moon
To Pitris; they are worshipped through my mouth, And eat the offerings with it; . . . darest thou then Curse me to "eat of all things" ?

Agni withdraws from the world in anger, all sacrifices are suspended, and mankind generally distressed. The Rishis in much alarm repair to the Gods. These accompany them

1 किसिंटं सTहसं हलान्टातवानस मरं मति ।
छमूं प्रयतमानख्य सत्य वहतः समं। पृोयदलवं सस्यं व्युसचारोड को मस।
 स पूर्वानत्वन: सप्र कुल हन्यात्तापरान् । यम्य काखर्यर्थत्वत्रो जानानोड़ि नयतषे । सोड़प तेनव पापेन लिखते नान संश्य: । पूतोडहमधप शू पं लं मTन्यातु श्राहाए मम । जानतोड़ च तो नहन कायये निवोध तत्। योगोन वुुधातानं हृला तिषामि मूत्ता । औगिहोनेपु सेप क्रियासु व सखेष च। वेदोतेन विधानेन माय यदूयते हीि:। दवता: पपतर श्रोव तेन तुप्रा अवनित दे। भ्रापोदेवगया: सर्वं भाप: पपतृया त्या। दर्श म पोर्यास स्यू देवनां fपतथम: सही
दूता: पितरस्तसातिपतर मापप देताः ।
एकोमूताय दृ्यका प्रथकलवन च पर्ष्वस ।
दवताः पपतर श्वेव मुन्ञते मधि यद्धुता
देवतानं पपतास मुखमतदहं स्तं ।

म्रमावास्यं हि पपतर: पोर्यामासं हि देता: मनुलन क्यति भुत च ऊंत हदि: सर्षयच: करं तेषं अवियाम बुं लहें।
to the presence of Brahma, who summons $A$ gni, and gently admonishes that deity, as follows :

Thou art in all the dweller, of all aets
The mover, of the Three Worlds and their life
Sustainer. Thou shalt still dwell, move, sustain!
Be not unwise, being so great a God ;
Thou art the purity and strength of Earth,
Thou shalt not bear th' unlightened curse, nor eat
The belly's draff ; save as a flame eats flesh.
The Sun makes clean whate'er he shines upon,
So shall be clean whate'er thy fires consume.
Give of thy splendour what this curse demands
For nccessary use, but keep thy part
Of offerings with the Gods, whose mouth thou art. ${ }^{1}$
Agni consents amid the rejoicings of heaven and earth; and the danger is averted.

The Reciter then narrates the story of Ruru, grandson of Chyavana; how the Sage Sthulakeśa found exposed the infant daughter of an Apsaras, by Vishàvasu, King of the Gandharvas, and reared her into wonderful virtue and beauty. Ruru sees and loves this fair Pramadvara, who is promised as a bride to him: but, playing in the wood, she is bitten by
> ${ }^{1}$ लोकानामिह सर्वैषां त्वं कर्त्ता चान्त एव च ।
> त्वं धारयसि लोकांस्त्रीन् क्रियाएाइ्च प्रवर्त्तकः।
> स तथा कुरु लोकेश् नोकिद्येरन्यथा क्रियाः।
> कस्मादेवं विमूढस्त्वमीश्वरः सन् ङुताश्न।
> त्वं पविनं सढ्र लोके सर्व्वभूतगतिय्चह।
> न त्वं सर्व्वश्रीरेए सर्व्वभचत्वमेप्यसि।

अ्रपाने ह्यर्चिषोयास्ते सर्वं भोच्यन्तन्त ताः शिखिन्। क्रव्यादा च तनुर्या ते सा सर्वं भच्चयिप्यति । यथा सर्य्यंगशुभिःस्पृष्टं सर्व्वं गुचि विभाव्यते।
तथा त्वदर्चर्चर्भर्द्र्धं सव्वंवं गुचि भविप्यति।
त्वमग्ने परमं तेज: स्वप्रभावाद्विनिर्गतं।
सतेजसेव ते शापं कुरु सत्यमृषेर्त्विभो।
देवानां चात्मनो भागं गृहाए त्वं मुखे हतं।
a large snake, and falls lifeless to earth amid weeping friends. Ruru, wild with sorrow, repairs to a lonely grove and there laments:

She lies, my sweet-limbed darling, on the earth,
Grievous to see for me, kin, friends, and all.
Ah, Gods! What woe is greater?-Ah, high Gods!
If I have won, by penance, worship, works,
Grace at your hands, give me in one dear gift
All my reward, my lore's life back again!
Open her eyes and let my merits go!
A heavenly messenger (देवदूत) appears and speaks :
Vainly thou weepest, Ruru! she is gone.
Tears cannot make the dead alive again;
Yet the Gods keep a secret which might give Life to Pramadrara!
Ruru exclaims:
Oh, Angel! speak.
What must I do? What secret? tell me quick
That I may hear and try ; deign to give aid. ${ }^{1}$
> ' शूते सा भवि तन्वङ्नी मम शोकविवर्वर्चीनी। बान्धवानाश्च संत्ब्वषषі किं नु दुःखमतः परं। यदि द्त्तं तपस्तमं गुरवो वा मया यदि। सम्यगारणधितासेन सखीवतु मम प्रिया। यथा च जन्मप्रभृति यतात्माइहं धृतव्रतः। प्रमद्धरा तथाsघेषा समुन्तिशतु भाविनी। एवं लालप्यतस्तस्सभार्य्यार्थे दु:शितस्स च॥ देवदूतस्तदा $\int$ म्येत्य वाक्यमाह रुरुं वने ॥ देवटूत उवाच ॥ अभिधत्सहे यद्वाक्यं रूरो दुःखेन तन्मृषा।
> यतो मर्च्यस्स धर्मात्मन्नायुरस्ति गतायुपः।
> गतायुरे षा क्वपणा गन्धर्व्वाप्तर सी मुताः।
> तस्माच्छोके मनसात्रात्रथासत्वं कथझ्चन।
> उपायश्चान विहित: पूर्व्व देवैर्महात्मभिः।
> तं यद्रीच्छसि कर्तुं लं प्राप्ससीह प्रमद्वरं ॥
> रुरुराच $॥$ क उपायः हृतो देवेर्दूर्ह तत्वेन बेचर।
> करिष्डिऽहं तथा ग्रुला चातुमहींत मां भवान् ॥

The Messenger informs the Prince that if he bestows one moiety of his remaining existence upon the dead maiden, Yama, the God of Death, may aeeept the priee, and restore Pramadvara. Ruru joyfully eonseuts, and his betrothed is restored to life, and married to him. But, ever after, his enmity against serpents beeomes insatiable. He kills all he meets remorselessly, until, one day, in entering a forest, he sees an old Dundubha snake (डु एडुभ) asleep and seeks to put it to death. The snake wakens up and remonstrates in a human voiee, pleading that he is of a harmless kind, and has done no one any injury. Ruru, astonished, qustions the reptile, and learns that it is a Rishi, named Hara, long ago ehanged into snake-form by a Brahman's eurse. Hara had one day in sport frightened his friend the Brahman, while at saerifiee, with a wisp of straw twisted to resemble a serpent; and in his terror the angry sage had eursed him to take that shape. The eurse eould not be retracted, but it would pass away-said the Brahman-when its vietim met with Ruru. Aceordingly the Dundubha now resumes his human form, and instructs the Prince in the true duties of a Twiee-Born. So far from destroying any such ereatures, sueh a one ought to be eompassionate and heedful, speeially after having heard the story of Janamejaya, how he engaged to kill all the serpent-people at a saerifiee, and how they were rescued by the Brahman Astika.

Saunaka then begs the Reeiter to narrate this serpentlegend. Astika's father was Jaratkaru, a great aseetic, equal in dignity and holiness to the Prajapatis. One day, "breathing with the interior breath, fasting, and keeping his eyes held from winking," he was visiting holy places. At night he eame to a eave, where he beheld many figures suspended by their feet over an abyss. They were kept from falling into the pit only by one cord of fibres, whieh a rat was gnawing. He addressed them somewhat thus:
"Oh se that hang heads downward in this cave, The home of rats, held by thin threads from the pit, Who are jou?" . . .
"We are ancestors," they said,
"Of Jaratkáru, a most holy Sage,
Who dooms himself and us to misery,
Being ascetic and a celibate.
By this thin thread of his one life we hang,
[While Time the Rat doth nibble it a-twain,]
Having no children of our child. But thee
Why should this touch, O Brahman? Who art thou?"
And Jaratkáru answcred, "I am he
Who grieves ye thus, my ancestors. Say then
What must I do?"

> "Ah, haste thee! wed! beget!"

They cried, "that thou and we may live anew :
A son is more than virtues or than fasts, . . .
Marry, and breed a boy, before we fall." ${ }^{\prime}$
' द्तस्ततः परिचरन्द्रीप्तपावकसप्रभः।
अ्रटमान: कदाचित्स्बान् स ददर्श पितामहान् ।
लम्बमानाम्महा गर्ते पादे रुर्घेरवाझ्युखान् ।
तानव्रवीत्स दृष्द्वे जरत्कार: पितामहान् ।
के भवन्तोऽवलम्बन्ते गर्ते ह्यस्मिन्नधोमुखाः। वीर एास्तम्बके लमाः सर्वृतः
परिभचिते। भूषषकेण निगूढेन गर्त्तेडस्मिन्नित्यवासिना।
॥ पितरऊचुः ॥ यायावरा नाम वयमृषयः शूंसितव्रताः।
सन्तानप्रच्चयाद्वाह्मन्नो गच्छाम मेदिनों।
उस्रस्मां सन्तातस्वेको जरत्कारूरिति स्मृतः।
मन्दभाग्योऽल्पभाग्यानां तप एकं समास्थितः।
न स पुनान् जनयदतुं द्रारान्मूछश्चिकीर्षति।
तेन लग्वामहेगर्त्तें मन्तानस चयादिह।
च्रनाथा स्तेन नाथेन यथा दुप्षृतिनस्तथ।
कर्वं वन्धुर्रवास्माकमनुशेचसि सत्तम।
ज्ञातुभिकामहे व्रह्मन् कोभवानिह्ह न: स्थितः।
किमर्थध्येव न: शोच्याननुशोचसि सत्तम।
$\|$ जरत्कारुरुवाच ॥ मम पूबें भवन्तो वे पितरः सपितामहा: ॥
ब्रूत किं करवाएयद्या जरत्कारुरहं ख्वयं।
॥ पितरजचुः ॥ यतस्व यन्नवांसात सन्तानाय कुलस्स नः।

Jaratkáru consents to marry, if he can find a wife of his own name, freely offered to him; which conditions are fulfilled, after much wandering, by Vasuki, a King of the Serpents, who gives his daughter-also called Jaratkáru-to the Sage. Afterwards she bears him a son, the renowned Astika, who delivers the suspended aneestors, and also saves the snake-people at the sacrifice. The history of this event is next told, beginning in "the age of the gods." A Prajapati, named Kasyapa, had two wives, Kadru and Vinata, to whom he promised whatever each should wish. The former desired to have a thousand serpent-children, the latter to bear two sons stronger than a thousand. Kasyapa assents, and Kadru by-and-by brought forth suake-eggs ten at a time, up to a thousand, while Vinata prodnces two. Five hundred years elapse, and Kadru's eggs are hatehed, but not Vinata's, who, becoming impatient, breaks one, and is reproached by the half-formed offspring within, who disappears, to become Aruna, the herald of the Dawn and charioteer of Aditya. In departing he tells his mother that she must be punished by becoming her sister's slave, but that her other child, Garuda, shall deliver her.
Just upon the birth of Garuda, the sisters perceive Uchehaihsravas, the Divine Steed, approaching, which was produced when the Gods churned the Occan for the "Amrit." The mention of this miraculous horse occasions a long description of the churning of the Sea of Milk with Mount Mandara for the churning-stick, and the King of Serpents for the cord, and also how there came out thence the Moon, and Srî, and the great elephant Airáraná and Dhanwantari with the nectar, and this wonderful horse Uehehaihsravas. After long digression the poem comes back to its course.

> स्रात्मनोऽथेंडस्मद्थैच धर्म्मद्रत्येव वा विभो।
> न हि धर्न्मफलेस्तात न तपोभिः सुसान्चितैः। तां गतिं प्राप्नुवन्तीद्व पुरिएों यां ब्रजन्ति वे।
> तद्दारग्रहल यत्नं सन्तत्याश्च मनः कुरा। पुचकास्मिन्नियोगात्व्रेतनः परमं हितं।

The sisters dispute as to the colour of the horse, Kadru saying its mane and tail were black, Vinata that they were white, and they wager about it, she who is wrong to be the other's slave. Kadru employs her serpent-brood to deceive Vinata, cursing those among them who shall disobey; and thus Vinata, after seeing the horse, yields herself to servitude. At this time Garuda is hatched from her remaining egg, of such mighty size and dazzling brilliance that the beholders take him for Agni. The first act of Garuda is to bear his brother Aruna to the eastward heavens, where the Sun was preparing to consume the world in anger at what had happened during the Amrit-churning. "Thus, the Sun at his rising was covered over by Aruna, the charioteer, and Gods, men, and Lókas remained unconsumed."

A curious episode follows. Garuda, visiting his mother beside the "great ocean," finds her obeying Kadru and the serpents, who ordered the great Bird-God to carry them all to the Land of the Nagas, "in the midst of the sea." Garuda complies, but flies so near the sun on his way, that the snakechildren are only saved from death by copious rains sent from Indra. After remaining some time on the Delightful Island, the Snakes demand to be carried elsewhere, and Garuda, indignant at such servitude, learns from his mother Vinata that he and she can only buy their freedom if he will bring to the serpent-people some of the Heavenly Amrit.

Garuda first needs food himself, and is sent for this by his mother to the island of the Nishadas, being warned in devouring them, not to swallow a Brahman. "They are more dreadful than fire, poison, or deadly weapons." "If he should eat one by mistake, the morsel will stick in his throat like a fish-hook, and burn like flame." Garuda lands upon the isle, driving the waves upon the land by his huge wings and feet, and devouring the Nishadas with his vast gaping beak. A 13rahman and his wife are gulped up with the hapless crowd, but they stick in the vast bird's gullet and scorch like fire. Garuda cries, "Release thyself, great Brahman, and come fortl," but the Brahman then begs that his Nishadi spouse may be also released, which is granted. Next
the Bird flies to his father Kasyapa, still lacking food, and is directed to the "Lake of the Elcpliant and Tortoise," of which a very long story is told. Garuda scizes these two monsters, one in each claw, and seeks a branch on which he may perch to devour them. He comes to a mighty sandal trec (Rauhinapadapa) and alights. The bough breaks with his weight, but he seizes it, while falling, with his beak, for it is covered with meditating sages, who must not be hurt, yet will be killed if the limb drops. From that triplo and "grievous load" Garuda's namo is said to be derived. Flying far to discover a spot where he could safely lay down the branch, laden with "the sages who feed on sun-beams, the Balakhilyas," he is directed by his father to Ilimavat, where he rids himself of his burden and devours the elephant and tortoise.

By this time prodigies have warned the Gods that the colossal Bird is coming to seize their Amrit. There is emotion and even fear in the Indian Olympus, for, strong with the austerities of sages, " nothing," Vrihaspati declares, " will be impossible to Garuda." All this danger is due "to a previous act of pride on the part of Indra." The fault of the Deity (whose behariour is discussed with curious freedom) is thus recited:

When Kasyapa performed sacrifice for a son, all the gods assisted, and they, as well as Indra and the Balakhilyas, were sent by Kasyapa to bring wood for the sacrifice.

Indra, according to his strength, easily brought a bundle of wood as big as a mountain. He, on his way to the sacrifice, saw some little lean starveling sages, half a thumb high, all together carrying a single tiny stick, under the weight of which they had tumbled into a cow's foot-print full of water, where they remained, struggling to get out. Proud Indra, contemptuously laughing, went up, and lifted them out with disrespect. At this they grew indignant and indeed extremely enraged, so that they "began a mighty deed, terrible to Indra." They sacrificed with special rites and repeated solemn prayers (or Mantras) with a loud voice, what they prayed for being this:-" Let another terrible Indra be born, the fruit of our Tapasya, who shall have whatever power he requires, and go
where he pleascs, rule over the gads, be the dread of Indra, and a hundred times more strong and valiant."

Indra, much alarmed at this strong prayer, begs the intercession of Kasyapa, who persuades the angry little Saints to be satisfied with the creation of a Garuda. He was to bc, as before said, one of the two egg-born children of Vinata, but Kasyapa warned the God thus:-"Never again slight the sages (Brahmavadis), nor proudly contemn those, whose every word, when angered, is as a thunderbolt."

The story now resumes its course, with an account of Garuda's attack upon the Gods. He overcomes Viswakarma, keeper of the nectar, and bewilders or defeats the other Deities, including even Agni. He then became small that he might pass within the whirling golden discus and the fiery snakes guarding the Amrit, which he seizes and carries off, not, however, tasting it. Indra hurls a thunderbolt at the vast Bird while escaping, but it affects him so little that Garuda voluntarily drops a wing-feather in order that he may seem to have been struck, and that Indra may not be altogether shamed. Astonished at such grace and power, Indra asks friendship and explanations from the Bird, who says:
"I can carry on my wings the earth and its forests and mountains, its lakes and seas. I can carry all its regions, creatures and products, without wcariness."

Indra begs that the Amrita may be restored, since it will be fatal to the Gods that any others should possess it. Garuda accordingly promises that, as he has only undertaken to fetch, but not to deliver, the Nectar of immortality, he will lay it down where Indra may recover it. In return for this complaisance, he receives immortality and control over the Scrpents, whom he deccives by placing the Amrit in their sight, but persuading them first to bathe and pray, and deck themselves before they eat. Indra meanwhile carries off the prize, and the Snake-folk, mournfully licking the Kusa-grass where it had been deposited, cut their tongucs. Hence, all scrpents-says the narrative-have become double-tongued.

The next chapter rccounts the names of the principal chicfs among the Scrpents.

The head of all these, Śesha, dreading the curse laid on his kind by their mother, set himself to fast, and stood meditating, "till his hair grew long, and his flesh, sinews and skin dried up." Brahma, observing this, pitied him, and offered a boon, "since thy thoughts are always virtuous." Śesha asked that he might ever delight in virtue, and also eseape the fate of the Snakes; which Brahma grants, appointing him at the same time the Sustainer of the earth. "Beneath the world evermore sits the inighty Snake, and singly supports it." Meantime the other serpents hold assemblies to diseuss the means of averting the maternal curse. Various proposals are put forward. One snake suggests they shall become Brahmans; another that they should get elected as Janamejaya's ministers; a third to try force; a fourth to defile the sacrifice, and thus render it null; a fifth to seize the king while still young. None of these projects please; but Elapatra, a wise serpent, relates how, when the curse was pronounced, it was also fated that Astika should be born and deliver all the virtuous snakes. So it was that the SerpentKing's sister, Jaratkáru, married the Sage of that name, and bore the Rishi Astika. The story thus comes round again.

This happened at the time of King Parikshita of the Kaurava race ; and it is related how, while hunting one day, this monarch eame upon a Brahman engaged in devotion, who did not answer when the King asked for water. Parikshita, in hasty pique, put a dead snake round his neek, still unnoticed by the Sage; but his young son, learning the affront thus offered, cursed the Royal offender to die by the bite of a snake. A curious passage ensues, wherein the fulfilment of this curse is depieted, although the Brahman had endeavoured to avert the effect of his son's words. Parikshita perishes, and his infant son Janamejaya is proclaimed successor, being betrothed to the daughter of the King of Kaśi.

In the ensuing chapter the story of Jaratkáru's ancestors, hanging by their heels in the eave, is told over anew, with fresh details, until the marriage of that sage is again reaehed. Here occurs a remarkable passage, illustrating the deep subjection of the wife of such a Rishi as Jaratkáru:

It chaneed he laid his head upon her lap, Sleeping so long the sun came near to sink; And she did dread lest it should sink and leave His sunset-prayers unsaid. But almost more Feared she to anger him, awakening him. Yet at the last this seemed the lesser ill, To vex him for his good. ${ }^{1}$ So, with soft breath, She whispered in his ear, "Arise, my Lord! The sun is setting, make thine evening prayer After thy wont; the sacred fire shines low, And in the west the shades of twilight spread."

Uprose he from his slumber wrathfully, With lips in anger quivering, and he eried, "O Daughter of the Snake! obeyest thou thus?
Is this thy rev'rence? I will not abide Beside thee any more. 'The Sun,' sayest thou? I think he dared not set until I woke; The meanest will not live where he is scorned, Much less a Sage like me."

Murmured the wife,
" I did it not in scorn, dear Lord! but lest Thou shouldst omit thy duty, being a Sage."
${ }^{1}$ उवाचेदं वचः स्लचां ततो मधुर्भाषिएा । उत्तिष्ठ त्वं महाभाद् सूर्योंड स्तमुपगक्षति। सन्ध्यामुपास्स भगवन्नप: स्पृष्दा यतव्रत। प्रादुप्षृतानिहोनोडयं मुङ़त्तों रम्यदारुए। सन्या प्रवर्त्तते चेयं पस्चिमां दिश्रि प्रभो। एवमुक्तः स भगवान् जरत्का रुर्म्महातपा। भार्य्यं प्रस्फुरमाएँीष द्दं वचनमब्रवोत्। अ्रवमान: प्रयुत्तो $S$ यं त्वया ममा भुज ङ्गमे। समीपे ते नवत्साfम गमिश्यामि यथागतं। शुक्तिरसि न वामोरु मयि सुप्ते विभावसोः।
च्रस्तं गन्त यथाकालमिनि मे हृदि वर्त्तते। न वाडप्यवमतस्सेह वासो रोचेत कस्यचित्।
किं पुनर्द्रम्मशीलस्य मम वा मद्विधस्य वा। etc.

But the harsh Rishi is implacable, and only vouchsafes to console his abandoned wife by telling her that as to her unborn offspring, Asti "he is." Hence when she gives birth to a son, he was called Astika.

After a repetition of the story of Parikshita and his death by the serpent's bite, the narrative relates how Janamejaya prepared the great sacrifice for the destruction of the Snakes. The officiating priests, of whom a list is given, make ready the ground and the "house," and a guard is set round because it has been predieted that a Brahman shall stay the rites. "The officiating ministers took their stations. They wore black garments and muttered the charms as they threw the scented wood upon the fire, striking terror into the minds of the serpents at a distance. These, calling in a bewildered way on each other, rushed into the flames, hissing, twisting, and entwining their bodies. They were inumerable and of rarious shapes. They dropped in myriads into the flames; limbs, bones, and marrow were mingled together, and the roasting flesh sent forth a dreadful smcll. Dismal crics were heard of the snake-folk, flying into the air and falling into the sacrifice." Even the serpent kings Takshaka and Vasuki were terrified and drawn by the sacred and dreadful spell.

At this juncture Vasuki calls upon Astika, his daughter's child by Jaratkáru, to save the suake-people. Astika consents, and approaches the place of sacrifice, which he finds guarded. He endearours to gain admittance by loud felicitations of the King and his priests, which are heard with astonishment and pleasure by Janamejaya, since Astika is so youthful. The King is inclined to offer the young Brahman whatever he wishes as a boon, but Takshaka the Snake-Lord has not yet been brought to the flames, so the Hotra must continue. Presently Indra appears in the air with the Great Snake coiling round him for protection, but the King cries, "If Takshaka takes refuge with Indra, hurl him and the God together into the flames." At this command the officiating priest devotes both the snake and his divine protector to the fire, and Indra, greatly alarmed, flies with his chariot of clouds to hearen, while Takshaka "helplessly approached the
flames." The priests exclaimed, "The sacrifice goes well, King! You can now grant the young Brahman a boon." The King cries out, "I grant it," and Astika immediately demands that the sacrifice be stayed. The King is in consternation at this sudden turn; he offers gold, cattle, anything instead of this; but Astika insists upon the salvation of his mother's race, and the priests themselves say, "the Brahman must have his boon." The sacrifice is thus stayed.

The serpents are very grateful. They cry aloud:
... "Oh, Astika! aceept some gift from us
Whom thou hast saved." . . .
Answer made Astika,
"Let him who is a Brahman, priest or lay,
Or one, not twiee-born, who shall read this tale
Of what I did, at sunrise and sunset
Go free from peril of your poison-fangs."
Eager the Snake-folk gave consent, and framed
A eharm of subtle meaning, Asitam
Chartimantañcha Sun-îtham. So rolled
The potent syllables, whieh whoso saith
By day or night he walks fearless of fangs.
Also if one be threatened by a snake,
This must he ery, "Oh Snake! calling to mind
Astika-Jaratkáru's son by her
Like-named - who saved the Serpents from the flames,
Thou shouldst not harm me. Be it well with thee
Deadly and excellent! as thou reeall'st Astika's words, which stayed the saerifiee."
And if a Snake turns not abashed at this,
Shattered be hood and head a hundred-fold. ${ }^{1}$
${ }^{1} \|$ सौतिरुवाच ॥ एतन्कुत्वा प्रीयमाएाः समेता ये तन्नासन्पद्नगा वीतमोहाः। उ्रास्तीके वे प्रीतिमन्तो बभूवुरुचुँचं वरीमषं वृएीघ्व। भूयोभुय: सर्व्वशूसेड ब्रुवंसं किं ते प्रियं करवामाद्य विद्यन् । प्रीता वयं मोचितार्चेव सर्व्व कामं किं ते करवामाय वत्स।
$\|$ \#्रास्तीक उवाच ॥ सायं प्रातर्यै प्रसन्नात्मरूपा लोके विप्रा मानवा ये परेडपि। धर्नाख्यानं ये पठेयुर्म्मेदं तेषां युप्मनेव किचिद्धयं स्सात्।

Fanciful genealogies and fantastic stories ensue, having for objeet to link these mythical legends with the Pandu and Kuru Princes; and the main argument afterwards is related how the Brahmans eleared the land of male Kshatryas, and begot a better race upon the females of that sort; and how the earth was plagued with Daityas, ete., to rid her of which the Gods and Apsarases came down incarnated.

A strange episode ensues, beginning with mention of the marriage of Yayati to Devayani. The Gods and Demons had quarrelled, and, in the conflict which followed, Sukra, the Brahmana of the Demons, restored to life such as fell by his magic art of Sanjivini or "Enlivening." Angiras, the Purohit of the Gods, could not emulate this, so the Gods sent Kacha, the son of Vrihaspati, to offer himself as pupil to the great Rishi, and thus learn the secret. Kacha presents himself at the abode of the Sage, saying,
> "Kacha am I, son of Vrihaspati.
> Master, admit me near thee ; I will live
> The life of Brahmacharya, studious
> Of wisdom, tho' I wait a thousand years."
> And the Sage answered, "Welcome art thou, Son ;
> I will admit thee, for I honour thee,
> Being the son of good Vrihaspati."

Kacha therefore undertakes the vows, and serving about the person of his Teacher, soon ingratiates himself with his

तैश्याप्युतो भागिनेय प्रसनेनेरतत्सत्यं काममेवं वरं ते। प्रीत्या युत्ताः कामितं सर्व्वशश से कर्त्तार स्म प्रवएा भागिनेय। ग्रसितं चार्त्तिमन्त्र मुनीथं चापि यः स्मरेत्। दिवावा यदि रानौ नास्यसर्पभयं भवेत्।
यो जरत्कारुणा जातो जरत्कारी महायशाः। ग्रासीकः सर्पसने व: पन्नगान्योs्यर चत। तं स्मरन्तं महाभागा न मां हिंसितुमर्हथ। सर्पापसर्पंद्रं ते गछ सर्प महाविष।
जनमेजयस्य यज्ञान्त्त त्रासीकवचनं स्मर।
ग्रास्तीकस्य वच: ग्रुल्वा यः सर्पों न निवर्त्तते।
शूतधा भिदते मूर्ज्ऩ शिंश्रृच फलं यथा।
daughter Devayani. In this manner he passes a long time, till the Asuras, knowing Kacha, determine to make an end of him to spite Vrihaspati, and to preserve on their own side the art of reviving the dead. They kill him and cut him into pieces, which they give to dogs. The verse proceeds :

> The cows came back that night without a guide, And Devayani, seeing them alone, Spake to the Sage, "Father, the sun is set, The Agnihotra offered; but the cows Return untended. Where is Kacha, then? I see not Kacha! Is he hurt or slain? I cannot live without him. I shall die."
> "If Kacha hath been slain," replied the Sage, "He shall return alive, when I say 'Come!'"

Then, having recourse to his art, he summons Kacha, and all the portions of his body at once emerge from the maws of the dogs, and are reunited in living form. Devayani asks why he has stayed away so long; and he relates how the Asuras killed and mutilated him when he was bringing Samidh wood and Kuśa grass. "Now, however," adds Kacha, "I am somehow restored."

Again he is sent for flowers by Devayani, and the Asuras catch and kill him, this time reducing his body to a paste, which they throw in the sea. The lady misses him, invokes her father's aid, and Kacha is restored. The third tine the demons slay him, and then burn his body, afterwards giving its ashes in wine to the Rishi. Devayani is in despair, she declares that he was her only beloved, and threatens to die if he be not revived. Kacha suddenly speaks to the Sage from his own inside, explaining what has been done, and that the Asuras hope either to put an end to him, or to make him kill his preceptor (a mortal sin) in being brought forth to life. Tho only solution of the difficulty is that the sage should tcach the art of Sanjizini to the imprisoned pupil, in order that when he has emerged alive (by the enforced destruction of his master) he may exercise tho art, and in turn restore the Sage himself to existence; Devayani having dutifully pro-
tested that she can survive neither the one nor the other. Aceordingly the arrangement is carried out. Kaeha comes forth, to the destruction of his Teacher's body, and then revivifies the august corpse. Restored to life, the Sage solemnly curses wine, which had betrayed him, and prohibits its use in future by all Brahmanieal persons. Devayani afterwards offers herself as wife to Kaeha, but he exenses himself in a very ungrateful manner, by pretending that having inhabited the body of her father, they are now brother and sister. Incensed at this, Devayani curses him: "his aequired gift shall be fruitless to himself." But he takes its knowledge in triumph to the Gods.

A long episode follows about the lives and fortunes of Yayati and his brides Devayani and Samistha. Their offspring bring the poem down to the Paṇdava and Kaurava families, and to the real narrative of the Mahábhárata, all this lengthy introduction-with mueh other unnotieed matter -serving apparently to dignify the Brahmans, defame the "Snake-peoples," glorify Royal pedigrees, and to blend existing legends and beliefs with the real and eminently beautiful ancient Epie, of which the action may be said to begin with the death of King Paṇdu.

## Art. XVIII.-Arab Metrology. IV. Ed?-Dahaby.

By M. H. Sauvaire.

[p.1.] Ceei est un traité important, substantiel, utile, sur la détermination du derham, du meṭqâl, ete., par le maître, le très doete cheikh Eḍ-Dahaby, que Dieu lui fasse miséricorde et nous fasse profiter de lui et de ses connaissances! Ainsi soit-il!
[p. 2.] Au nom de Dieu clément, miséricordieux!
Louange à Dieu, le maître des mondes! Que la prière et le salut reposent sur notre Seigneur Mohammad, sa famille, ses compagnons et les eompagnons de ses compagnons (tâbétyn)!

Or done, voici ce que dit Moustafa Eḍ-Dahaby, le châfé'îte: Ceei est un traité sur la détermination تحرير du derham, du metqâl, des monnaies ayant cours en Egypte (Mesr), de la quantité d'alliage غشٌ qu'elles contiennent et du chiffre qu'elles fournissent comme quotité imposable (nésâb), ainsi que cela a été déterminé حرّر à l'hôtel des monnaies, et sur l'exposé des poids et des mesures de capacité.

En ce qui regarde le derham et le metqâl, les textes établissent qu'ils n'ont pas changé, ni avant ni depuis l'islamisme, e'est-à-dire que la puissance poids, sons l'islamisme, n'a pas varié de ce qu'elle était an temps du paganisme et qu'elle est restée conforme à la détermination que les Grees (Younan) en avaient faite. Or les gens ont continué de l'adopter, lors de la venue de l'islamisme, le législateur (saeré) ayant gardé le silence sur ee point. Les derhams et les metqâls dont il est question dans la zalâh (la dîme aumônière) et autres (prescriptions religieuses) doivent done s'entendre de eette (manière) et ne sauraient être l'objet d'aucun doute, contrairement à ee que sc sont imaginé quelques (docteurs).

Ebu er-ref'ah ${ }^{1}$ dans le Tebyan, ${ }^{2}$ Es-Saroûdjy ${ }^{3}$ dans le Commentaire de la Hédâyah, ${ }^{4}$ Es-Soyouty ${ }^{5}$ dans le Qat' ${ }^{6} l$ moudjâdlulah, ${ }^{6}$ El Maqrîzy, ${ }^{7}$ ' Abd el Qâder es-Soûfy ${ }^{8}$ et autres auteurs ont rapporté que les Grees (Younân) avaient évalué le derham à quatre mille deux cents grains (hablah) -4200,- -des grains de moutarde sauvage, ${ }^{9}$ et le metqâl à six mille de ces mêmes grains ${ }^{10}-6000$. Le derham se trouve ainsi égal aux septdixièmes du metqâl, ${ }^{11}$ e'est-ì-dire à la demie et un cinquième de celui-ci, ${ }^{13}$ ct lo metqâl à un derham et trois septièmes de derham. Conséquemment les dix derhams équivalent à sept metqâls. ${ }^{13}$ Cette équation est basée sur le rapport de l'or pur فیّ à la parité de son volume ${ }^{11}$ d'argent pur. Alors, en effet, le poids de l'or surpasse celui de l'argent des trois septièmes de ee dernier, comme eela est connu. On n'a pris pour base ce rapport qu'ì eause de la fréquence de l'emploi des (expressions) derham et metqâl pour signifier les deux monnaies (légales), le (mot) metqâl étant notoirement usité en (parlant de) l'or et le (mot) derham pour (exprimer) l'argent ; et l'on n'a fait l'évaluation en moutarde sauvage que parce qu'elle eonstitue une espèce unique qui ne varie ni en légèreté ni en pesanteur $\dot{i} l_{j}$, ainsi que l'ont rapporté El Maqrîzy et autres. L'évaluation faite au moyen de eette (graine) est donc d'une régularité constante ; ${ }^{15}$ il en est tout

[^79]${ }^{9} \frac{4200}{3 \mathrm{gr} ., 089 \mathrm{~S}}=0 \mathrm{gr} ., 0007356 \frac{2}{3}$.
${ }^{10} 0 \mathrm{gr} ., 0007356 \frac{2}{3} \times 6000=4 \mathrm{gr} ., 414$.
$11 \frac{2200}{6000}=\frac{7}{10}$.
$12 \frac{7}{10}=\frac{1}{2}+\frac{1}{8}$.
${ }^{13} 3,0898 \times 10=4 \mathrm{gr}$., $414 \times 7$.

autrement des autres grains: ils sont en effet variables et, par conséquent, il n'est pas valable de s'en servir pour faire une évaluation. Certainement, si les grains appartiennent à une espèce dont la légèreté et la pesanteur sont moyennes, il est permis de les employer à l'évaluation, comme l'ont fait les (jurisconsultes) modernes, mus par le désir d'obtenir un petit chiffre, en évaluant le derham, en (graines de) moutarde rouge des jardins de moyenne grosseur et égales, à mille grains ${ }^{1}$ - 1000 ,-en (graines de) chechm indien noir arrivées à maturité, de moyenne grosseur et égales, à cent quarantequatre graines ${ }^{2}-144$,-en (grains d') orge séparés pleins, moyens, à cinquante grains d'orge et deux cinquièmes ${ }^{3}$ - $50 \frac{2}{5}$, -et en grains de caroube (Kharnoûb) bien nourris /ا, moyens et égaux, à seize grains et quatre cinquièmes de grain ${ }^{4}-16 \frac{4}{5}$.

On a également déduit par analogie le metqâl du derham suivant le rapport précédent; on a fait cela sur le pendant de l'évaluation qui avait été donnée par les Grecs. ${ }^{5}$

Néanmoins personne n'ignore qu'on ne connaît l'état moyen توسّط de légèreté et de pesanteur (des grains) qu'en tenant compte des époques du développement des plantcs [p. 3] dans les quatre saisons, comme l'a énoncé Ebn Abîl fath es-Soûfy ${ }^{6}$ dans son traité intitulé Teuhfat en-neuddd̂r fi inchâ el 'yâr; ce qui parfois n'est pas facile. Or, le moyen le plus sûr, que dis-je? le seul certain pour la détcrmination "حرير dont il s'agit, est de recourir à la moutarde sauvage: on en prend cinquante grains-50,-avec lesquels on détermine une sandjah ${ }^{\circ}$ (poids-étalon) dcstinée à exprimer le cinquième d'un grain de caroube; ${ }^{7}$ avec l'enscmble on

[^80]-
${ }^{6}$ L'auteur et l'onrrage sont ineonnus à Hadji Khalîfah.
${ }^{7} \frac{0 \mathrm{Ogr} ., 1839{ }^{\frac{1}{6}}}{5}=0 \mathrm{gr}$., $03678 \frac{1}{3}$.
compose une sandjah pour les deux cinquièmes ; ${ }^{1}$ et avec le tout, une sandjah pour les quatre cinquièncs. ${ }^{*}$ A l'aide de la première sandjah et de la troisièmé, on forme une santjah pour la habbah, qu'on appelle qirât. ${ }^{3}$ L'ensemble des quatre santjah est égal ì deux qîràts et deux cinquièmes; ${ }^{4}$ ce qui représente un septième de derham ${ }^{5}$ et (aussi) un dixième de metqâl. ${ }^{6}$ On compose ensuite le derham et le metqâl suivant ce rapport, comme il a été dit précédemment. Le metqâl cst donc (égal à) vingt-quatre qîrâts ${ }^{7}$ et le derham, à seize qîrâts et quatre cinquièmes de qîrât. ${ }^{8}$ Le qîrât équivaut à deux cent cinquante grains de moutarde ${ }^{9}-250$.

Les chefs du rite hanafîte l'ont fait de trois cents grains de moutarde ${ }^{10}-300$ - ; car, ont-ils dit, le metqâl est (égal à) vingt qîrâts- 20 -, et le dcrham (à) quatorze qîrâts- 14 -. C'est là une manière conventionnelle de s'cxprimer qui renferme la proportion sans fraction. Prends donc garde.

Il s'est introduit récemment, dans la coutume de Mesr, l'usage de faire le derham légal de seize qîrâts et le metqâl, d'un derham et demi. Par suite le qîrât mesry pèse deux cent soixante-deux grains de moutarde et un demi-grain ${ }^{11}$ $262 \frac{1}{2}$-, et le metqâl (mesry) pèse six mille trois cents grains de moutarde ${ }^{12}-6300$ - ; ce qui le rend supérieur au metqâl légal d'un qîrât mesry et d'un septième de qîrât. ${ }^{13}$ Le
${ }^{1} 0$ gr., $03678_{3}^{1} \times 2=0$ gr., $07356 \frac{2}{3}$.
${ }^{2} 0$ gr., $03678 \frac{1}{3} \times 4=0$ gr., $14713 \frac{1}{3}$.
${ }^{3} 0$ gr., $03678^{\frac{2}{3}}+0$ gr., $14713 \frac{1}{3}=0$ gr., $18391 \frac{2}{3}=1 h a b b a h=1$ qirât, c'est-à-dire le qîrât des Châfé' 'îtes.
${ }^{4} 0 \mathrm{gr}$., $03678 \frac{1}{3}+0,07356 \frac{2}{3}+0,14713 \frac{2}{3}+0,18391 \frac{2}{3}=0 \mathrm{gr} ., 4414=2 \frac{2}{5}$ qîrâts.
${ }^{5} 0 \mathrm{gr} ., 4414 \times \bar{i}=3 \mathrm{gr}$., 0898 ou le derham légal.
${ }^{6} 0 \mathrm{gr}$., $4414 \times 10=4 \mathrm{gr}$., 414 ou le metqâl légal.
70 gr., $18391 \frac{2}{3} \times 24=4 \mathrm{gr} ., 414$.
${ }^{8} 0 \mathrm{gr}$., $18391 \frac{2}{3} \times 16 \frac{4}{5}=3 \mathrm{gr} ., 0898$.
${ }^{9} 0 \mathrm{gr} ., 0007356 \frac{2}{3} \times 2.50=0 \mathrm{gr}$., $18391 \frac{2}{3}$.
${ }^{10} 0$ gri., $0007356 \frac{2}{3} \times 300=0 \mathrm{gr}$., 2207. C'est le qîrât des Hanafîtes, qui donnent au metqâl légal 20 qîrâts et au derham, 14, comme le dit Eḍ-Ḍahaby. En effet $0,2207 \times 20=4 \mathrm{gr} ., 414$ et $0,2207 \times 14=3 \mathrm{gr} ., 0898$. Cf. Matériaux etc.
${ }^{11} 0$ gr., $0007356 \frac{2}{3} \times 262 \frac{1}{2}=0$ gr., 1931125.
${ }^{12} 0 \mathrm{grr}$., $00073556 \frac{2}{3} \times 6300=4 \mathrm{gr}$., 6347 .
${ }^{13} 4 \mathrm{gr} ., 6347-4 \mathrm{gr} ., 414=0$ gr., 2207 (ou 1 qîrât hanafîte). 0gr., $2207=$ 0 gr ., $193112 \overline{5}+\frac{0 \mathrm{gr} \text {., } 1931125}{7}=0 \mathrm{gr} ., 193112 \overline{5}+0 \mathrm{gr} ., 0275875$.
metqâl légal, exprimé en qîrâts égyptiens, est donc de vingtdeux qîrâts et six septièmes de qîrât, ${ }^{1}$ ainsi qu'il résulte de la proportion légale. On trouve quelques Bondoqys (sequins de Venise) qui ont ce poids (meqdâr) : on les appelle mochilias. On dit que c'est là l'étalon de poids (me'yâr) du metqâl légal; cette opinion a été émise par le Cheikh Es-Safawy.

Le metqâl mesry est donc égal à un metqâl légal et au quart du cinquième (ou $20^{\mathrm{me}}$ ) de celui-ci, ${ }^{2}$ et par conséquent vingt metqâls mesrys en font vingt-un, au metqâl légal. ${ }^{3}$

Quant au derham (mesry), tu sais déjà qu'il est légal
 d'El Malek el Achraf ${ }^{4}$ portant le sceau de ce prince et établi sur le derham légal, et l'avons trouvé identique. Les seize habbah, ${ }^{5}$ évaluation donnée au derham mesry, égalent en poids les seize (habbah) ${ }^{6}$ et quatre cinquièmes, chiffre auquel est évalué le derham légal, de telle sorte que la habbah de celui-là équivaut à une habbah et un quart de cinquième de habbah de celui-ci, et les soixante-quatre grains de blé đ̈s auxquels est évalué le derham mesry, ${ }^{7}$ égalent en poids les cinquante grains d'orge et deux cinquièmes, qui constituent l'évaluation donnée au derham légal, le grain de blé équivalant ainsi aux trois quarts d'un grain d'orge et trois cinquièmes du quart du quart d'un grain d'orge ${ }^{8}-\frac{3}{544}$ (sic) - : ce qui est en plus comme nombre se trouve en moins sous le rapport de l'espèce (de grains) et vice versâ. ${ }^{9}$
${ }^{1} 0 \mathrm{gr} ., 1931125 \times 22 \frac{6}{7}=4 \mathrm{gr}$., 414.
${ }^{2} 4 \mathrm{gr} ., 414+{ }_{20}^{4,414}=4,414+0,2207=4 \mathrm{gr} ., 6347$.
${ }^{3} 4 \mathrm{gr} ., 6347 \times 20=4 \mathrm{gr} ., 414 \times 2 \mathrm{l}=92 \mathrm{gr} ., 694$.
${ }^{4}$ L'auteur désigne aiusi El Malek el Aehraf Bersbây (roy. plus loin). Dans le Catalogue du British Museum, t. iv., on trouve deux derhams de ee prince; mais le plus fort ne pèse que lgr., 95696. Il s'agirait plutôt iei, ce me semble, d'un poids étalonné.
${ }^{5}$ Ou girâts mesrys.
${ }^{6} \mathrm{Ou}$ qirâts châfétites.
${ }^{7}$ Ce qui donne pour le grain de blé ${ }^{30^{a n} 4^{R}}=0 \mathrm{gr} ., 048278_{8}^{1}$.
8 Cette fraction représente ${ }_{80}^{83}$. Les ${ }_{\text {no }}^{83}$ de 0 gr., $061305_{9}^{3}$ (royez ei-devant) $=$ $0 \mathrm{gr} ., 0482788_{8}^{1}$.
r ${ }^{\text {a }}$. dans le combien a diminué daus le comment et viee versa."

Les poids (maqûdir) sont done égaux, bien qu'il y ait une différence dans les quantités (de grains) فـى الUمهp. Prends done garde.

Il est notoire aussi que les cinquante, au poids de Constantinople, font einquante-un, au poids de Mesr. Conséquemment, le metqâl (de C. P.) est plus fort (que celui de Mesr) de deux einquièmes de qîrât mesry et de deux einquièmes de einquième ${ }^{1}-\begin{array}{ll}2 & 2 \\ 5 & 5\end{array}$-; le derham (de C. P.) l'emporte (sur celui de Mesr) d'un cinquième de qîrât (mesry) et de trois cinquièmes de cinquième ${ }^{2}-31$ - le qîràt (de C. P.) pèse cinq grains de moutarde et un quart de grain de plus ${ }^{3}$ (que le qîrât mesry) ; et le ratl (de C. P.) contient deux derhams, sept huitièmes de derhan et deux cinquièmes de cinquième de qîrât $\left(\text { messry }^{4}\right)^{4}-2 \frac{7}{8} \mathrm{H}_{5}^{2}{ }_{5}^{2} \mathrm{~T}^{5}-$ de plus (que le ratl mesry). Or, le poids (meqdâr) du qîrât de Constantinople étant de deux cent soixante-sept grains de moutarde et trois quarts ${ }^{6}-\overline{267 \frac{3}{4}}-$, [p. 4] il s'ensuit que le metqâl de Constantinople est plus fort que le metqâl légal de quatre-cent vingt-six grains de moutarde ${ }^{7}$ - 426 - ; et les cinquante metqâls, au poids de Constantinople, sont
${ }^{1}$ Cette fraction équivaut à $\frac{12}{2} \frac{3}{5}$. Si on ajoute au metqâl mesry $=4 \mathrm{gr} ., 6347$, les $\frac{12}{2}$ du qîrât mesry ou $\frac{12 \times 0 \mathrm{gr} ., 1931125}{25}=0$ gr., 092694 , on aura pour le metqâl de C.P. 4 gr ., 727394.
${ }^{2}$ Ce qui fait $\frac{-8}{2} 5 . \quad$ Le $\frac{8}{25}$ de 0 gr., 1931125 représentent 0 gr., 061796. En les ajoutant ì 3 gr., 0998 on a pour le derham de C.P. 3gr. 151596 . Tillet dans son Essai sur le rapport des poids étrangers avec le marc de France (Mémoires de l'Académie des Sciences, année 1767) fait le derham de C.P. égal à 1 marc 2 onces 3 gros et 28 grains $=3 \mathrm{gr}$., 18899 .
${ }^{3} 5 \frac{1}{4} \times 0 \mathrm{gr} ., 0007356 \frac{2}{3}=0 \mathrm{gr} ., 00386225$; $0 \mathrm{gr} ., 1931125+0,00386225=0 \mathrm{gr} .$, 19697475.
${ }^{*}$ Le ratl mesry étant égal à 144 derhams, on aurait pour celui de C.P. $146 \frac{7}{h}$ derhams et $\frac{2}{25}$ de qîrât mesry, soit en grammes 453 grr ., 829824 . Ce chiffre diffère cependant de celui donné par El Djabarty.
${ }^{5}$ L'Hü est l'abréviation de Der'ham et le Tû, celle de Qirấ. C'est par le D et le Q que je les représenterai désormais.
${ }^{6} 0$ grr. $0007356 \frac{2}{3} \times 267 \frac{3}{2}=0$ gr., 19697475 que nous arons déjà vu.
2. En effet $267^{\frac{3}{4}} \times 24=6426$, et $6426-426=6000$.
égaux à cinquante-trois, deux cinquièmes et trois quarts de cinquième d'un metqâl, au poids légal ${ }^{1}-\frac{3}{53} 45$. Prends donc garde.

Sache encore qu'il faut, dans les évaluations légales telles que la quotité imposable (nésâb), prévenir de la différence des poids, afin d'éviter toute confusion. La méthode pour obtenir ce résultat, en ce qui regarde le nésáb, consiste à diviser sa quantité de grains de moutarde par la quantité qu'en renferme son qîrât: le quotient sera un nésâb en qîrâts demandés. On en composera ensuite des derhams ou des metqâls suivant la proportion légale ou coutumière. Ainsi, le quantum (meqdâr) du nésâb de l'or pur القِّانیى, en grains de moutarde, est cent vingt mille ${ }^{2}-120,000-$; en qîrâts légaux, quatre cent quatre-vingts qîrâts ${ }^{3}-480-$; en qîrâts mesrys, quatre cent cinquante-sept et un septième de qîrât ${ }^{4}$ - $457 \frac{1}{7}$ - ; en metqâls légaux, vingt metqâls ${ }^{5}$ 20 - ; en metqâls mesrys dix-neuf metqâls et un septième de tiers ${ }^{6}-\frac{1}{19} \frac{1}{7}$-; en derhams légaux ou mesrys, vingthuit derhams et quatre septièmes de derham ${ }^{7}-2 \overline{4} \frac{4}{7}-$.

Le quantum du nésâb de l'argent pur, en (grains de) moutarde, est de huit cent quarante mille ${ }^{8}-840,000-$; en qîrâts légaux, il est de trois mille trois cent soixante

$$
\begin{aligned}
& { }^{1} 50 \times 4,727394=533_{6}^{33} \times 4,414=236 \mathrm{gr} \text {., } 3697 \text {. } \\
& { }^{2} 6000 \times 20=120000 \text {. On sait que la quotité imposable pour l'or est de } 20 \\
& \text { metqâls. } \\
& { }^{3} 1220000=480 \text {. } \\
& { }^{4} \frac{120000}{262 \frac{1}{2}}=457 \frac{1}{7} . \quad 457 \frac{1}{8} \times 0 \text { gr., } 1931125=20 \times 4 \mathrm{gr} ., 414=88 \mathrm{grr} ., 28 . \\
& { }^{5} \frac{120000}{6000}=20 \text {. } \\
& \text { - } \frac{120000}{6300}=19_{2} \frac{1}{2} \text {. } \\
& { }^{7} \frac{120000}{4200}=28 \frac{1}{7} \text {. } \\
& \text { 8 } 4200 \times 200=840000 \text {. On sait que la quotité imposable pour l'argent est do } \\
& 200 \text { derhams. Celle de l'or étant de } 20 \text { metqâls }=28 \frac{1}{3} \text { derhams, on a } 28 \frac{1}{\frac{1}{7}} \text { derhams } \\
& \text { d'or }=200 \text { derhams d'argent, d'où } 1 \text { derham d'or }=7 \text { derhams d'argent. }
\end{aligned}
$$

qîrâts ${ }^{1}$ - 3360 - ; en qîrâts mesrys, de trois mille deux eents qîrâts ${ }^{2}-3200-$; en derhams légaux ou mesrys, de deux eents derhams ${ }^{3}$ - 200 -; en metqâls légaux, de cent quarante metqâls ${ }^{4}$ - 140 - ; en metqâls mesrys, de cent trente-trois et un tiers de netqâl ${ }^{5}$ - $133 \frac{1}{3}$-. On évalue d'après cette analogie le nésâb an poids de Constantinople.
A. ${ }^{6}$ "Par ces mots: On écalue d'après cette analogie etc., l'auteur veut dire que le nesâb de l'or en qîrâts de Constantinople est de quatre eent quarante-huit qîrâts et quarante-huit grains de moutarde ${ }^{7}-\frac{Q^{8}}{448} \overline{48}$; ce qui, en metqâls (de C. P.), est égal à dix-huit metqâls et deux tiers - $\overline{18 \_}-9$ et quarante-huit grains de moutarde -$\overline{48}-$; en derhams (de C. P.), à vingt-huit derhams et quarante-huit grains de moutarde ${ }^{10}-\overline{48}$.

Le nésâb de l'argent, en qîrâts (de C. P.), est de trois mille cente trente-sept qîrâts - 3137 - , et soixante-huit grains de moutarde et quart ${ }^{11}-\overline{68 \frac{1}{4}}-$; ee qui, en derhams
${ }^{1} \frac{840000}{250}=3360$.
${ }^{2} \frac{840000}{262 \frac{1}{2}}=3200$.
${ }^{3} 840000=200$.
${ }^{4} \frac{840000}{6000}=140$.
${ }^{5} \frac{840000}{6300}=133 \frac{1}{3}$.
${ }^{6}$ Tout le passage que je place entre deux A se trouve dans la marge de l'édition lithographiée.
${ }^{7} \frac{120000}{267^{\frac{3}{4}}}=448$, et il reste 48 (grains de moutarde).
${ }^{8}$ Le texte porte par erreur 480.
${ }^{9}{ }_{6426}^{120000}=18 \frac{2}{3}$, et il reste 48 (grains de moutarde).
${ }^{10} \frac{12^{n} 000}{428!}=28$, et il reste 48 (grains de moutarde).
${ }^{11} \frac{840000}{267 \frac{3}{4}}=3137$, et il reste $68 \frac{1}{\frac{1}{4}}$ (grains de moutarde).
(de C. P.), fait cent quatre-vingt-seize derhams et un demihuitième de derham $-\frac{}{196 \frac{1}{10}}$ - et soixante-huit grains de moutarde et quart ${ }^{1}-\overline{68 \frac{1}{4}}-$; et, en metqâls (de C. P.), cent trente metqâls et un tiers, un quart et un huitième de metqâl - $\overline{130 \frac{17}{2}}$ - et soixante-huit grains de moutarde et quart. ${ }^{2}$ (Note) suffisante. A.

Cela a lieu ainsi pour le nésáb de la monnaie pure (sâfy), comme nous l'avons indiqué. Quant au nésâb en monnaie contenant de l'alliage (maghchoûch), c'est d'après le calcul de cet alliage (ghechch), ainsi qu'on le verra dans le tableau des monnaies.

Ce qu'a mentionné le Cheikh el islâm à propos du Charif!!, qui est le dînâr d'El Malek el Achraf Bersbây, à savoir que son poids est d'un derham légal et un huitième de derham, ${ }^{3}$ et que le nésâb, en cette monnaie, est de vingt-cinq dînârs, deux septièmes et un neuvième de dînâr - $\overline{25} \frac{1}{9}{ }_{7}^{2}$ (sic) -, est basé sur ce que le Charîfy dont il s'agit ne contient pas d'alliage. Si donc on multiplie le nombre de ce nésáb par un derham et un huitième de derham, le produit atteindra le $n e ́ s a ̂ b ~ d e ~ l ' o r ~ e n ~ d e r h a m s, ~ c o m m e ~ o n ~ v i e n t ~ d e ~ l e ~ v o i r . ~$

## Remarque.

Ce qui précède nous apprend que l'alliage n'entre pas dans le calcul du nésâb et qu'il n'est pas imposable; qu'on no
${ }^{1} \frac{840000}{4284}=196 \frac{1}{16}$, et il reste $68_{4}^{\frac{1}{4}}$ (grains de montarde).
${ }^{2} \frac{840000}{6246}=130_{2}^{\frac{1}{2}}$; le reste est $68 \frac{1}{4}$ (grains de moutarde).
${ }^{3} 3 \mathrm{gr}$., $0898 \times 1^{\frac{1}{8}}=3 \mathrm{gr} ., 476025$ on 18 qîrâts égyptiens, ee qui est aussi le poids du sequin de Venise (bondoqy) et de eelui de Hongrie (madjar). Le plus fort des Charitys du British Museum (Voy. Catalogue, ive vol.) pesse 53 grains anglais $=$ $3 \mathrm{gr} ., 4344$. En tenant compte de la tolérance et du frai, on n'est pas loiu du poids donné par notre auteur.

4 Bu effet $25^{2} \frac{2}{7}$ ou $25_{6}^{26}$ multipliés par $1_{8}^{1}=28 \frac{1}{7}=88 \mathrm{gr}$., 28. Ce qui est en derhams (de 3 gr ., 0898) le poids du nésáb de l'or, autrement représenté par 20 metqâls (de 4gr., 414).
eomplète pas lo nésâb de l'une des deux monnaies par l'autre, et que l'une d'elles ne peut supporter l'impôt pour l'autre ; suivant l'opinion d'Ech-Châfé'y; en effet, la zakâh (dîme aumônière) est afférente à la chose mêmo ('ayn). Abou Hanîfah et Mâlek professent au eontraire qu'il y a lieu, si l'alliage est faible ou si les pièees eontenant un alliage passent à l'ègal des pièees do métal pur (sâfy), de faire entrer l'alliage dans le ealeul, et que le nésâb de l'une des deux monnaics doit se eompléter par l'autre.' Suivant quelques juriseonsultes قيل, (eela aura lieu ainsi) pour une fraction, comme un demi-nésâb de chacune d'elles; et suivant d'autres تيلّ, ee sera pour la valeur dañ, commo eent derhams d'argent et quatre metqâls d'or d'une valeur de eent derhams d'argent.
(Abou Hanîfah et Mâlek professent en outre) qu'il est permis de eompléter par l'une des deux monnaies (le nésâb de) la zakikh, ${ }^{2}$ en ayant égard à la valeur; ils autorisent même qu'on complète (le nésâb de) la zakûh par autre chose que la monnaie, par les aliments [p. 5 ] et les vêtements, par exemple, en se basant sur la valeur.

## Principes dérivés (forồ').

Le nésâb est une condition sine qua non, même à l'égard des mines ; suivant quelques jurisconsultes, tout ce qui en est extrait est passible de la zakah. Ce qui est obligatoire dans la $\approx a k \hat{u} h$ des espèees monnayées (naqd), e'est le (payement du) quart du dixième ; même (il en est ainsi) pour les trésors en fouis ركاز. D'après quelques-uns, c'est le cinquième qui est obligatoire.

Il n'y a pas d'interruption ${ }^{3}$ après le nésâb; au contraire,

[^81]ce qui est en plus doit payer au prorata. Abou Hanîfah s'est prononcé pour le waqas jusqu'à quarante derhams, pour l'argent: ils doivent alors un derham ; et pour l'or jusqu'à quatre metqâls, qui sont imposés à un dixième de metqâl. Et ainsi de suite pour chaque quarante (derhams) et pour chaque quatre (metqâls).

## Complément.

Sutr des quantités (maqâdîr) conventionnelles (estélâhiyyah).
De ce nombre sont:
L'estâr, égal à quatre metqâls et la moitré d'un metqâl ; ${ }^{1}$
Le tassốdj, que les Hanafîtes font d'un demi-qîrât, soit cent cinquante grains de moutarde ${ }^{2}-150-$;

Et le dâneq. Dans l'origine le dâneq était le sixième du derham. ${ }^{3}$ Dans la suite, on l'a communément considéré comme étant le sixième du sixième du quart du qîrât; ce qui fait la cent quarante-quatrième partie d'un qîrât - $\overline{144}-$.
L'une de ces parties ${ }^{4}$ est donc un dâneq; les deux font une habbah; ${ }^{5}$ les trois, un demi-qîrât du qîrât; ${ }^{6}$ les quatre, deux habbah; ${ }^{7}$ les cinq, une habbah et un demi-qîrât; les six, un qîrât du qîrât, c'est-à-dire le tiers du huitième [ou la $24^{\mathrm{me}}$ partie] de celui ci. ${ }^{8}$ On continue à prendre de cette manière le rapport au qîrât jusqu'à ce qu'on arrive à vingt-
chiffre, supérieur, pour être passible du payement d'un impôt supplémentaire. Ce chiffre est pour les Hanafîtes, comme on le voit dans ce paragraphe, le cinquième du nésâb, et chaque cinquième du nésâb est seul soumis à l'acquittement de la dîme aumônière; le chiffre intermédiaire ne paye rien.
${ }^{1}$ Cet estûr est en corrélation avec le ratl de Baghdâd de 90 metqâls ou 128 类 derhams. Le ratl compte 20 estârs; $20 \times 4 \frac{1}{2}=90$. Voy. mes Matériaux, IIe partie, sous Estïr.
${ }^{2} 150 \times 0$ gr., $0007356 \frac{2}{3}=0$ gr., 11035 ou la moitié de 0 gr., 2207 , qîrât des Hanafîtes. Voy. mes Matériaux.
${ }^{3}$ On donnait aussi ce nom au ò du dínâr. Voy. mes Matériaux, sous Dúneq.

- C'est-à-dire $2 \frac{1}{4}$ -
${ }^{5} \mathrm{~T}^{2}+5=\frac{1}{2}$.
6 $\frac{3}{144}=\frac{1 / 2}{24}$.
${ }^{7}$ 者 $1=\frac{2}{2}$.
${ }^{8}{ }^{1}+\frac{6}{4}=\frac{1}{21}$.
quatre: l'on a alors le qîrât entier. ${ }^{1}$ Après quoi, l'on rapporte celui-ci au metqâl et [autres poids] analogues, et on emploie comme signes représentatifs ceux consacrés aux
 Ainsi le huitième, par exemple, du qîrât est dix-huit dâneqs; ${ }^{3}$ celui du metqâl, trois qîrâts ; ${ }^{4}$ celui du derham d'usage deux qîrâts; ${ }^{5}$ celui du Bondoqy, deux qîrâts ct un quart de qîrât, ${ }^{6}$ et ainsi de suite. Comprends donc.

Les fractions (kosoûr) pouvant se confondre les unes avec les autres, on les distingue par un signe $\ddot{\alpha} \cdot \downarrow=$, tel que le $T a ̈$ pour indiquer le qîrât; le Mím, pour le metqâl; le Dâl, pour le derham. Ce qu'il $y$ a de plus commode, c'est de figurer les qîrâts au moyen des chiffres indiens, ainsi qu'on le verra.

Sache encore que le dâneq, dans le sens qu'on lui donne communément, ne peut être exprimé par les balances ordinaires à cause de sa ténuité. Les plus habiles peseurs discnt même que tout ce que peuvent marquer les balances destinées au
 neuf dâneqs ${ }^{7}$ et tout ce que peuvent indiquer les balances construites pour peser les diamants, c'est le quart du quart d'un grain de blé, ce qui est l'équivalent de deux dâneqs et un quart de dâneq. ${ }^{8}$ Il est vrai, lorsque les objets á peser sout nombreux, ce qui était caché se manifeste. Il faut donc, surtout dans les opérations exigeant une limite fixe, ${ }^{9}$ telles que le nésâb, suivant Ech-Châfé'y, indiquer toutes les
$1 \frac{24}{2 \frac{1}{4}}=1$.
,
${ }^{3} \frac{18}{1+4}=\frac{1}{8}$.

- $\frac{2 t}{8}=3$.
$5 \frac{16}{8}=2$.
${ }^{6}$ On rerra plus loin que le Bondoqy pèse 18 qîrâts. $\frac{18}{8}=2 \frac{1}{4}$.
${ }^{7}$ Nous avons trouré ci-devant pour le grain de blé (qamhah) Ogr., 048278125 -
Le $\frac{1}{4}$ de ce nombre, qui est en même temps les $\frac{9}{1 \not{ }^{*}}$ ou $\frac{1}{16}$ du qîrât mesry de 0gr., 1931125, est égal à 0gr., 01206953125.
${ }^{\text {s }}$ Les $2 \frac{1}{4}$ dâneqs, ou $\frac{1}{16}$ du grain de blé $=\frac{\text { Ogr., } 01206953125}{4}=0$ gr., 0030173828125.
- فـ الإمال التحديدية.
fractions（kosoûr）y compris le dâneq et les fractions de celui－ci，${ }^{1}$ comme nous l＇avons fait dans le tableau．${ }^{3}$

Les signes employés pour représenter les fractions ${ }^{3}$ sont les suivants：
$\mathcal{J}$ un dâneq；$>$ une habbah；$\downarrow$ un demi－qîrât；$\rightarrow$ deux habbah； $\mathcal{L}^{-}$une habbah et un demi－qîrât；un qîrât； $م^{2}$ un demi－huitième；ené un demi－huitième et une habbah； भ deux qîrâts；，un huitième， 3 （qîrâts）；$\#$ un sixième， 4 （qîrâts）；\％cinq（qîrâts）；＜un quart， 6 （qîrâts）；； sept（qîrâts）；d un tiers， 8 （qîrâts）；$\ll$ neuf（qîrâts）； ＝＜dix qîrâts；；山 onze（qîrâts）；ノ une demie， 12 （qîrâts）； $\boldsymbol{幺}<$ treize（qîrâts）；ц un tiers et un quart， 14 （qîrâts）；，／quinze，（qîrâts）；c deux tiers， 16 （qîrâts）； ，し dix－sept（qîrâts）；\＆une demie et un quart， 18 （qîrâts）； g dix－neuf（qîrâts）；«r cinq－sixièmes， 20 （qîrâts）；$\because$ vingt－ un（qîrâts）；$e^{\text {deux }}$ tiers et un quart， 22 （qîrâts）；$j_{j}$ vingt－trois（qîrâts）；$/ \mathrm{T}$ un Qîrât，${ }^{4} 24$（qîrâts）．${ }^{5}$ Comprends donc．
［p．6．］Quant aux monnaies，nous les avons exposées dans le tableau en les accompagnant de la mention de leurs espèces（asnâj），de leurs poids，de leur alliage，de leurs valeurs courantes，du titre de leurs metqâls et de leurs derhams，c＇est à dire du fin（sâfy）qu＇ils contiennent，et de sa valeur de convention．Actuellement les estimateurs sont convenus de donner au Qîrât d＇or pur et au derham d＇argent pur la valeur de trois piastres ；cela，lorsque la monnaie est altéreé（mokhtall）

[^82]


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ou que l'espèce (sanf) en est prohibée (mahdjoirr). Si non, on a égard à la valeur courante, ainsi que nous venons de le dire, quand mêmc celle-ci scrait contraire à la déduction analogique. Tcl est le cas pour la valeur de la Mahmoúdiyeh ancienne qui vaut plus que la pièce française de viugt franes (binto), quoique le poids et le fin (sâfíy) de cette dernière soient plus élcrés, comme on va le voir. Prends donc garde.

Nous avons aussi rcprésenté pour chaque espèce le nombre de pièces formant le nésâb, ainsi que la pesanteur de celui-ci cı poids mesry: metqâls, derhams et Qîrâts. Nous avons dressé le tableau en faisant passer la première, successivement, l'espèce du titre le plus élevé, comme on l'apprendra de la diminution du titre ('yar) et de l'augmentation du nésáb. Nous avons mentionné lc complément (tamâm) du nésâb en fractions du dâneq, ct l'avons placé à la fin, pour qu'il sc rapporte à tout ce qui le précèdc. Enfin nous avons fait figurer le quart du dixième ${ }^{1}$ du nésâb approximativement.

Dieu cst celui qui assiste pour faire bien. Voici la la représentation du tableau.

## [p.11.] Remarque.

Le moyen de connaître le titre ('yâr) et le nesâb (quotité imposable) consiste à employer le rapport géométrique. En ce qui regarde le titre, on prend le rapport de l'alliage de l'espèce (de monnaie) au poids de celle-ci, et on retranche du metqâl ${ }^{2}$ ou du derham ${ }^{3}$ dans cette proportion. Le reste est le titre du metqâl ou du derham de cette espèce (de monnaie).

Pour ce qui concerne le nésâb, on cherche le rapport de l'alliage de la monnaie à son fin (sáfîh) et on ajoute au nésâb le fin dans la même proportion. Le total représente le nésâb de cette monnaie. S'il est inférieur au nésâb, on complètera

[^83]celui-ci à l'aide d'une autre monnaie et on payera en chaque espèce (de monnaie) le quarantième de ce qui en existe; ou bien on payera, en l'une des monnaies, non le quarantième du total, mais une quantité de fin égale à ce qui est dû, car le fin contenu dans le total sera inférieur à ce qui est dû, quand l'espèce employée à l'acquittement (de la zukâh) contient plus d'alliage que le restant, et il y sera supérieur lorsque cette monnaie renferme moins d'alliage que le solde. Prends donc garde.

Voici la démonstration de ce (qui précède) relativement au bondoqy et au madjar:

Le rapport de l'alliage du bondoqy, qui est six dâneqs, ${ }^{1}$ à son poids qui est de dix-huit Qîrâts mesrys, est du sixième du huitième d'un neuvième, $\frac{1}{689} .^{2}$ On retranche donc du metqâl dans cette proportion, ${ }^{3}$ et il reste un metqâl moins huit dâneqs: ${ }^{4}$ c'est là le titre du metqâl de l'espèce (de monnaie dite) bondoqy, c'est-ì-dire son fin. Le rapport de l'alliage du bondoqy à son fin étant un quatre cent trenteunième, on ajoutera aux Qîrâts du nésâb de l'or ${ }^{5}$ dans cette proportion: ${ }^{6}$ le total sera quatre cent cinquante huit Qîrâts, un sixième de Qirât, cinq dâneqs et neuf cent vingt-trois parties de trois mille dix-sept parties d'un dâneq. C'est le nésâb du bondoqy en Qîrâts. On en composc des metqâls mesrys : on obtient dix-neuf metqâls, un demi-sixième de

[^84]metqâl et la fraction qui précède. ${ }^{1}$ En les réduisant en bondoqys, tu as vingt-einq londoqys, quatre neuvièmes de bondoqy ${ }^{2}$ et la fraction qui précède.

La rapport de l'alliage du madjar; qui est un tiers de Qîrât, ${ }^{3}$ it son polds ou dix-huit Qirâts est un sixième de neuvième, $\frac{1}{69}$. On retranehe done du metqâl dans eette proportion: il reste un metqâl moins quatre neuvièmes de Qîrât. ${ }^{4}$ C'est le titre du madjar. Prends maintenant le rapport de son alliage à son fin: tu trouveras un einquantetroisième. Tu angmenteras le nésâb dans cette proportion, et le total sera quatre cent soixante-cinq Qîrâts, trois quarts de Qîrât, une habbah et deux eent trente parties de trois eent soixante et onze parties d'un dâneq. ${ }^{5}$ Ein les réduisant en metqâls, on obtient dix-neuf metqàls, trois huitièmes de metqâl et la fraetion prédédente. ${ }^{6}$ En compose-t-on des macjars, on a vingt-einq macljars, einq sixièmes de matjar et la fraction précédente. ${ }^{7}$

Si la somme devant aequitter l'impôt se composait de vingt bondoqys et de vingt madjars, le fin de l'ensemble serait de sept eent douze Qîrâts et un demi-Qîrât - $\boldsymbol{\tau} 12 \frac{1}{2}-.^{8}$ [p. 12.] Or il nous faut payer pour la zakâh un nombre de

[^85]${ }^{3} \mathrm{Ou} 8$ qîrâts. Cf. le ler tableau.

${ }^{5} 45 \frac{1}{7} \frac{1}{7}+\frac{407 \frac{1}{7}}{53}=465$ Qm. $\frac{285}{371}=465$ Qm. $+\frac{3}{4}$ de Qîrât mesry (ou 18 qîrats de Qîrât mesry) +1 habbah $+\frac{23}{3} \frac{3}{1}$ de dâneq.
${ }^{6}$ On n'a qu'à diriser le nombre des metqâls par 24. $465 \frac{2}{3} \frac{85}{1}: 24=19 \frac{3}{8}+\frac{2}{3} \frac{85}{1}$.
${ }^{7} 465 \frac{2}{3} \frac{85}{7}: 18=25 \frac{3}{6}+\frac{2}{3} 7 \frac{5}{1}$.
${ }^{8}$ En effet nous venons de roir que le metqâl mesry du bondoqy contenait $23_{\frac{17}{17}}$ de fin. Or ce metqâl se composant, comme nous le sarons, de 24 Qirâts mesrys et le bondogy en pesant 18, nous obtiendrons le fin contenu dans cette monnaie par la proportion $24: 23 \frac{17}{17}:: 18: x=17^{\frac{2}{2} \frac{3}{4}} \mathrm{Qm}$. Appliquant le même raisonnement aut madjar, dont le fin contenu dans le metqâl mesry est égal à $23_{9}^{5}$ Qîrâts mesrys, nous avons la proportion $24: 23 \frac{5}{9}:: 18: x=17 \frac{2}{3} \mathrm{Qm}$. Les 20 bondoqys contiendront par conséquent $17 \frac{23}{21} \times 20=359 \frac{1}{6} \mathrm{Qm}$.
et les 20 madjars, $17 \frac{2}{3} \times 20=353 \frac{1}{3}$,,
Total conforme $712 \frac{1}{2}$
pièces dont le fin ${ }^{1}$ représente exactement le quarantième de la somme, c'est-à-dire dix-sept Qîrâts, trois-quarts de Qîrât et un demi-huitième de Qirât, $-17 \frac{18}{2} \frac{1 / 2}{8}-.^{2}$

On sortira donc dix-huit Qîrâts, moitié en bondoqy et moitié en madjar; ou bien on payera en madjar dix-huit Qîrâts, un huitième de Qîrât, trois dâneqs et vingt-une parties de cinquante-trois parties d'un dâneq; -ou encore on sortira du bondoqy dix-sept Qiirâts, cinq sixièmes de Qîrât, une habbah et quatre cent dix parties de quatre cent trente-une parties d'un dâneq.

En effet, le fin (sâfy), dans les trois hypothèses, après la soustraction $\quad$ de l'alliage, qui est, dans le premier cas, les trois huitièmes du quart du neuvième, $\frac{3}{849}$ (ou $\frac{1}{96}$ ), comme le rapport du total de l'alliage tant du bondoqy que du madjar aux deux (fins réunis); ${ }^{3}$ dans la deuxième hypothèse, le sixième du neuvième $\frac{1}{69}$ (ou $\frac{1}{54}$ ), rapport égal à celui de l'alliage du madjar au poids total de la pièce; ${ }^{4}$ et dans le troisième cas, le sixième du huitième du neuvième (ou $\frac{1}{432}$ ), qui représente le rapport de l'alliage du bondoqy à son poids entier; ${ }^{5}$ le fin, disons nous, sera exactement égal à ce qui est dû, sans augmentation. Il en serait tout autrement si on se bornait à donner en payement un madjar, car le fin de cette pièce serait inférieur à ce que nous venons d'établir comme étant dû, d'un huitième de Qîrât et trois dâneqs; ${ }^{6}$ et l'inverse se produirait si on acquittait la $\approx a k a \hat{a} h$ 'فـج , litt. "il faut sortir, etc."
$2712 \frac{1}{2}: 40=17 \frac{60}{80}=17 \frac{1}{2} \frac{8}{4}$ et $\frac{1 / 2}{8}=17 \frac{3}{4}$ et $\frac{1}{18}$.

[^86]avee un bondoqy enticr, attendu que son fin serait d'autant supérieur à la dite quotité dûc. ${ }^{1}$ La méthode générale pour cette opération consistera ì ajouter au fin des espèeces que l'on possède le rapport de l'alliage de l'espèce en laquelle on veut payer à son fin. On aura alors un total qui sera comme s'il existait de cette espèce (de monnaie); et on payera en cette monnaic, le quarantième du total obtenu, qu'il soit petit ou grand. Fais done attention.

## Complément.

## Sur les opérations concernant les fractions. ${ }^{2}$

Dans la soustraction, ${ }^{3}$ l'addition ${ }^{4}$ et la division, ${ }^{5}$ on déreloppe les fractions ì l'aide des dénominateurs pour qu'elles deviennent du même ordre. ${ }^{6}$ Ensuite, dans l'addition, on divise le total du développement ${ }^{7}$ par le dénominateur commun: le quotient ${ }^{8}$ est la réponse; dans la soustraction, on soustrait le plus petit des deux développements ${ }^{9}$ du plus grand et on prend le rapport du reste au dénominateur commun: le quotient est la réponse; dans la division, on divise le plus fort des développements par le plus faible ou vice versâ: lo quotient est la réponse dans les deux cas. Ce qu'on reut par la division, c'est de faire connaîtrc l'unité entière. Si donc il y là un entier, ${ }^{10}$ déreloppe-le comme tu viens de le voir et


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${ }^{9}$ ¹. C’est-à-dire, le plus petit des deux nouveaux numérateurs. -نا
achève l'opération. Dans la multiplication, ${ }^{1}$ on développe les fractions de chaque côté à l'aide de leurs dénominateurs (respectifs) ; on multiplie ensuite le déceloppement du multiplicande par celui du multiplicateur et on divise le produit ${ }^{2}$ par les dénominateurs des deux côtés: ${ }^{3}$ le quotient est la réponse. Si c'était un entier, réduis-le à un dénominateur commun avec son côté et achève l'opération.

Si l'on (te) disait, par exemple: "Additionne une demie et un tiers," tu diviserais cinq, déreloppement des deux fractions, ${ }^{4}$ par six, dénominateur commun (maqâm) des deux fractions: le quotient serait cinq sixièmes.

On te dit: "Soustrais un tiers d'une demie." Tu retrancheras deux de trois et prendras le rapport de l'un restant à six : ce sera un sixième.

Si l'on te disait: "Divise une demie par un tiers ou vice versâ," tu diviserais, dans le premier cas, trois par deux : tu aurais un et demi. Dans le second cas, tu prendrais [p. 13] le rapport de deux à trois: ce serait deux tiers.

Si l'on te disait: "Multiplie un quart de metqâl, par exemple, et un cinquième par un tiers de metqâl et un septième," tu multiplierais neuf, développement du premier côté (multiplicande), par dix, déceloppement du second cûté (multiplicateur) et tu diviscrais le produit, qui cst quatre-vingt-dix, par les quatre maqâmât (dénominateurs): le résultat scrait six septièmes du quart d'un metqâl, soit cinq Qîrâts et un septièmc de Qîrât. Comprends donc.

## Ratle et mesures de capactié. ${ }^{5}$

Le ratl de Baghdâd est, suivant l'opinion préféréc par le
'الضرب.

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- C'est-ì-dire, la somme des deux noureaux numérateurs.
${ }^{5}$. Comp, ees poids et mesures avec ceux d'El Djabarty et de Mar Eliyâ, Roy. As. Soe. of Great Britain and Ircland, mai 1878 et jauvier 1880. Voy. aussi mes Matriviaux pour servir à l'hstoire de la numismatique et de la métroloyic musulmanes, parties ii. et iii. (inédites).

Cheikh En-Nawawy, de cent vingt-huit derhams et quatre septièmes de derham,-128 $\frac{1}{7}$ - ; ce qui, en metqâls légaux, correspond à quatre-vingt-dix metqâls,- 90 -, et, elı metqâls mesrys, à quatre-vingt-cinq, deux tiers et un scptième du tiers d'un metqâl, $-85 \frac{2}{3}$ et $\frac{1}{83}$.

Le ratl mesry est de cent quarante quatre derhams,-144-, poids équivalant, en metqâls mesrys, ì quatre-vingt-seize metqâls,-96-, et, en (metqâls) légaux, à cent (metqâls) et quatre cinquièmes de metqâl- $100 \frac{1}{5}$-. Le ratl mesry comprend done un ratl de Baghdàd et trois einquièmes du cinquième d'un ratl, ${ }^{1}$ et les vingt-cinq, aut ratl mestry, en représentent vingt-luuit au ratl de Baghdâd. ${ }^{2}$

Le poids (mequar) des deux qollah, en ratls de Baghdâd, est de cinq cents ratls, - 500 -, et, en mesrys, de quatre cent quarante-six ratls et trois septièmes de ratl- $446 \frac{3}{7}-{ }^{3}$

Le meucdd, pour Eeh-Châfé'y et Mâlek, est égal à un ratl et un tiers, au dit ratl de Baghdâd ${ }^{4}$ et, en (ratl) mesry, à un ratl, un sixième et un septième de sixième-T $\frac{1}{7} \frac{1}{6} .{ }^{5}$

Le sáa contient quatre meudds. Il égale done, au (ratl) de Baghdâd, cinq ratls et un tiers-51 $-{ }^{6}$ et, au (ratl) mesry, quatre ratls, deux tiers et deux septièmes de tiers- $4 \frac{2}{3} \frac{2}{73} \cdot{ }^{7}$

Le uasq comprend soixante sấ. Il pèse, au (ratl) de Baghdàd, trois cent vingt ratls-320- ${ }^{8}$ et, au (ratl) mesry, deux cent quatre-vingt-cinq et cinq septièmes de ratl-2855-5. ${ }^{9}$

Le nésàb se compose de cinq ucasq; ce qui fait, au (ratl) de Baghdâd, mille six cents ratls- $1600-10$ et, au (ratl) mesry, mille quatre cent vingt-huit et quatre septièmes de ratl —1428年—. ${ }^{11}$
${ }^{1} 128 \frac{4}{8}+\frac{128 \frac{4}{8}}{\frac{3}{25}}=128 \frac{4}{7}+15 \frac{3}{7}=144$ derhams $=444 \mathrm{gr} ., 9312$.
${ }^{2} 144 \times 25=12 S_{5}^{\frac{4}{7}} \times 28$.
${ }^{3} 446 \frac{3}{7} \times 144=500 \times 128 \frac{4}{7}$.
${ }^{4}$ Ce meudd pèse donc $128 \frac{4}{7} \times 1 \frac{1}{3}=171 \frac{3}{7}$ derhams.
${ }^{5}$ Soit $1_{\frac{8}{42}}$. $144 \times 1 \frac{8}{42}=171 \frac{3}{7}$ derhams.
${ }^{6} 128 \frac{1}{7} \times 5 \frac{1}{3}=685 \frac{5}{7}$.
${ }^{7} 144 \times 4 \frac{16}{2}=685 \frac{5}{7}$.
${ }^{8} 685 \frac{5}{5} \times 60=128 \frac{1}{2} \times 320=41142 \frac{6}{7}$ derhams.
${ }^{9} 144 \times 285 \frac{5}{7}=41142 \frac{6}{7}$ derhams.
${ }^{10} 128 \frac{1}{7} \times 1600=205714 \frac{2}{7}$ derhams.
${ }^{11} 144 \times 1428 \frac{4}{7}=205714 \frac{2}{7}$ derhams.

Cela est ainsi lorsque les grains (hoboûb) mesurés au meudd et au sấ sont nettoyés et d'une espèce moyenne comme légèreté et pesanteur, ${ }^{1}$ ainsi que l'a dit le cheikh el islâm, que le grain soit petit ou grand, le volume de la mesure étant le même dans les deux cas. Mais si les grains ne sont pas tels, leur poids (wazn) diffère de ce qui vient d'être mentionné et il faut recourir alors au mesurage légal, ${ }^{2}$ car c'est l'étalon ( $m e^{6} y a \hat{a} r$ ) pour les grains; le pesage de ceux-ci n'est qu'ull moyen de facilitation, alors que toutes les conditions voulues sont remplies. ${ }^{3}$ Toutefois si l'on ne connaît pas la mesure légale, ${ }^{4}$ on la déduira, par le pesage, de la moutarde sauvage ou des grains d'espèce moyenne au nombre desquels sont les lentilles, comme s'est exprimé El Bandanîdjy. Ainsi on en pèsera la quantité (meqdâr) ci-dessus indiquée pour le meudd et on en remplira une Kâlah; ${ }^{5}$ celle-ci servira d'étalon ( $m e^{6} y a ̂ r$ ), pour le meudd légal. Puis on en composcra le $s \hat{a}^{6}$, le wasq et le nésâb et l'on s'en servira pour éprouver les mesures usuelles ${ }^{6}$ [p. 14], comme le qadh; ${ }^{7}$ elles varient en effet suivant les usages conventionnels. Du temps d'El Qamoûly, ${ }^{8}$ le qadh contcnait deux meudd ; ${ }^{9}$ d'où le $s \hat{a}^{6}$ était égal à deux qadh, ${ }^{10}$ et le nésâb, à six ccnts qadh ${ }^{11}$ - 600 -,

${ }^{5}$ D'après Mahmoud Bey, eette mesure contient théoriquement 16 litres, 4790 et, pratiquement, 16 litres, 7169 , mesure comble.

${ }^{7}$ Cf. mes Matériaux.
${ }^{8}$ El Qamoûly est l'auteur du Bahr el mohît et du Djawaher el bahr. Son nom entier est Nadjm ed-dîn Abou'l 'Abbâs Ahmad ebn Mohammad. Il mourut en 777 (Comm. 2 juin 1375) et, d'après Orient. ii. p. 345, en l'a. 727 (Comm. 27 nov. 1326). Voy. Hadji Khal. ii. p. 616 ; iv. p. 28 ; v. p. 9 ; vi. p. 5 et 437 ; vii. p. 929.
${ }^{9}$ Notre auteur étant Châfésite, le meudd légal contemait pour lui $171 \frac{3}{7}$ derhams et par conséquent lo $q$ adh, $342 \frac{\underset{\%}{*}}{}$.
${ }^{10} 342{ }_{7}^{6} \times 2=685{ }_{7}^{5}$ derhams.
${ }^{11} 342 \frac{6}{9} \times 600=205714_{7}^{2}$ derhams $=635 \mathrm{k} .616$.
lesquels font six ardebs et un quart d'ardeb. ${ }^{1}$ A l'époque d'Es-Seubly, ${ }^{2}$ le qadh contenait deux meuld et un septième de meudd. ${ }^{3}$ Le sâ répondait done à deux qadh moins deux septièmes de meudd ${ }^{4}$ et le nésâb, à einq cent soixante qadh -560 - ${ }^{5}$ qui font six ardebs moins un sixième d'ardeb. ${ }^{6}$

Du vivant de mon maitre 'Abd Allah el Menoûfy, le qadh eontenait trois meudd; ${ }^{7}$ ee qui faisait le sád égal à un $q a d h$ et un tiers do $q a d h,{ }^{8}$ et le nésâb égal à quatre cents qadh - $400^{9}$-, ou soit quatre ardebs et un sixième d'ardeb. ${ }^{10}$

Enfin, de notre temps, ainsi que l'a établi lo Cheikh EehCharqâwy, le qadh contient trois meudd et un huitième. ${ }^{11}$ Conséquemment, le sấ est égal à un qadlh et sept huitièmes de $q a d h,{ }^{12}$ et le nésâb, à trois cent quatre-vingt-quatre quadh - $384^{13}$-, correspondant à quatre ardebs. ${ }^{14}$ L'ardeb est done actuellement le quart d'un nésáb, ${ }^{15}$ et son poids, pour les graius remplissant les conditions précédemmentindiqueés, est égal à quatre eents ratls, au (ratl) de Baghdâd - $400^{16}$ -

[^87]et à trois cent cinquante-sept ratls et un septième de ratl - $357 \frac{1}{7}$-, au ratl mesry. ${ }^{1}$

## Remarque.

Le meudd, suivant l'opinion d'Abou-Hanîfah, est égal à deux ratls de Baghdâd;-ce ratl se compose, d'après l'éraluation préférée par Abou Ishâq, de cent trente derhams - 130 - ; et le $s \hat{a}$, à huit ratls, au dit ratl: le poids (meqdâr) du sâ en derhams sera de mille quarante derhams - 1040 -. Le poids (wazn) du nésâb dépassera donc celui exprimé ci-dessus de huit cent vingt-six ratls, au (ratl) de Baghdâd préféré par En-Nawawy. ${ }^{2}$ Prends donc garde.

## Complément.

Sur des ratls et quantités (maqâdîr) de convention. ${ }^{3}$
Au nombre des ratls sont :
Le ratl des habitants d''Orfah, ${ }^{4}$ de deux mille quatre cents derhams - 2400 -;

Le ratl d'Antioche, de mille cinq cent soixante derhams - 1560 -;

Le Tahàwy, ${ }^{5}$ de mille deux cent derhams, - 1200 -;
Le Soyoûty et le Tahtâwy, de mille, - 1000 ;
Le Jérusalémitain, de huit cent soixante-quatre derhams, - $864^{6}$-;

L'Alépin, de sept cent vingt derhams, - 720; ${ }^{7}$
Le Tripolitain, de six cent trente derhams, - 630 - ;
Le Damascain, de six cents derhams, - 600 - ;

[^88]Le Mahally, ${ }^{1}$ de quatre eents derhams, -400 ;
Le Foûwwy, ${ }^{2}$ de trois cent soixante derhams, - 360 ;
Le ratl de Damiette, de trois cent trente derhams, - 330 ;
Celui de Samannoûd, ${ }^{3}$ de trois eents derhams, -300 ;
Le llariry ' (ratl de la soie), de cent soixante-deux derhams, - 162 -;

Le ratl de Fâs (Fez) et de Tunis, de cent soixante derhams, - 160 -;

Le Folfoly (ratl du poivre) et le Qal'y (de l'étain), de cent [p.15] cinquante derhams, - 150 - ;
L'Afrandjy (des Francs), de cent vingt-huit derhams, - 128 -;

Le Roümy, ${ }^{5}$ de cent deux derhams et demi ot six septièmes de derham, - $102 \frac{\pi}{7}$ -

Parmi les quantités (maquadir), ${ }^{6}$ nous citerons:
Le mann égal ì deux ratls;
La kaylah, égale à un namu et sept huitièmes de mann;
Le makkoikh, qui se compose de trois kaylah;
Le qufiz, équivalant à huit makkoûk;
Le karustoûn كرنتّ égal à deux qafiz ;
La rotaylah ("petit ratl") pour la soie, de trois cent vingt-quatre derhams, - 324 -;

La ludrahl du Maghreb, de eent trente-trois derhams et un tiers, $-133 \frac{8}{24}$-;

La ladrah roúmiych, de eent soixante-seize derhams, 176 -;
Le farq, vase contenant seize ratls;
Le faraq, mesure (mékyàl) d'une contenanee de quatre-

[^89]vingts ratls ou, suivant d'autres, de soixante ou de trentesix;

Le qentâr, qui est égal à cent ratls;
L'oque, égale à deux ratls et sept neuvièmes de ratl ; d'où le qentâr se compose de trente-six oques. Toutefois il est de notoriété maintenant que l'oque égale deux ratls et trois quarts de ratl ;
 séquent le nombre de ses derhams varie suivant qu'il en entre plus ou moins dans les ratls correspondants, ainsi que personne ne l'ignore. Dieu est plus savant.

L'auteur de ce traité, l'ostâd à qui Dieu fasse miséricorde, a dit: " Il a été écrit à la fin de doulol hedjdjeh de l'année 1272 de l'hégire (1856), sur le fondateur de laquelle soient la prière et le salut les plus parfaits ainsi que sur sa famille et ses Compagnons, aussi longtemps que ce qui a été créé périra et que durera ce qui est de toute éternité.
(Dans un triangle, formant la fin de la quinzième page, on lit:)

L'impression de ce petit écrit a été achevée au milieu du mois de chawwâl de l'année 1283, à l'imprimerie de Mohammad Efendi Onsy, que Dieu lui soit en aide matin et soir! aux frais de son moltazem le jeune homme vertueux le Sayyed Ahmad Abou Yousef el Qarby, que Dieu le protége dans sa religion et dans ses biens terrestres!

[^90]
## J O U R N A L

or

## THE ROYAL ASIATIC SOCIET'Y.

Art. XIX.-The Vaishnava Religion, with special reference to the Silishà-patri of the modern sect called Srāmi-Näruàma. By Monier Whllians, C.I.E., D.C.L., Boden Professor of Sanskrit, and Fellow of Balliol College, Oxford.

It is a remarkable eircumstance that the Queen of Great Britain rules over two lundred millions of people, who though deeply religious, possess a religion which eannot be designated by any one name. Most of the religions of the world, as, for example, Christianity, Muhammadanism, Buddhism, Zoroastrianism, are called by the names of their founders, though without the sanction of the founders themselves.

But the religion of the Hindīs has no speeial founder. The only name for it recognised by the Hindus themselves is Ārya-dharma-the Āryan system-the word Dharma being a vague and comprehensive term, whieh may inelude religion, law, easte, and usages of all kinds.

It is a ereed which eneourages an endless development of every eoneeivable religious thought. Based on an original simple dogma deelaratory of the Unity of God and of all being, it has branched out into an intrieate and impenetrable jungle of polytheistie superstitions. A new doetrine, or new view of doctrines previously in vogue, is promulgated by some man of earnestness and originality. A number of followers gather round him. His influence and authority beeome unbounded, and his opinions are speedily spread in many direetions. So long as he himself lives, he is able to restrain his teaching
within bounds, and to prevent foolish extravagances in his disciples. It is only when he dies that his doctrines are pushed to extremes never intended by himself. Eventually they expand into a monstrous overgrown system, the internal rottenness of which disgusts its own adherents. In fact the progress of religious thought in India may be compared to the growth of the sacred Fig-tree of India-which first roots itself deeply in the soil, and then from a single stem sends out innumerable branches, each branch descending to the ground and becoming a new tree, till the parentstock is lost in a dense labyrinth of its own off-shoots.

A complete scientific analysis in a short compass of a system so complicated would be no easy task, and happily I am not now called upon to undertake it.

On previous occasions I have attempted to trace the development of Indian religious thought through four principal phases, designated by the terms Vedism, Brähmanism, Śaivism, and Vaishṇavism.

Our present concern is with the last of these only, but it is essential to the comprehension of this fourth side of Hindüism that I should explain its relationship to the other three.

First then, Vedism-as most people now know-was the earliest form of the religion of the Indian branch of the Āryan family-the form which was represented in the songs, invocations, and prayers, collectively called Veda, and attributed to the Rishis, or supposed inspired leaders of religious thought in India. It was the worship of the deified forces or phenomena of nature, such as Firc, Sun, Wind, and Rain, which were sometimes individualized or thought of as separate powers, sometimes gathered under one general conccption and then personified as onc god under different names-as, for cxample, Varuṇa, 'the investing Sky'; Aditi, 'the infinite Expause'; Dyaus-pitar, 'the Father of IIcaven.'

Sccondly, Brähmanisın grew out of Vedism. It taught the merging of all the forces of nature in one universal spiritual Being-the only real Entity-which, when un-
manifested and impersonal, was called Brahmă (neuter); when manifested as a personal creator, was called Brahmã (masculine) ; and when manifested in the bighest order of men, was called Brähmaṇa.

This system developed into two chief phases of its own,the ritualistic and the philosophical. Buddhism then intervened, and spread itself with great rapidity. Originating in Behar and Oudh, and radiating to every quarter of the country, its influence was maintained for about a thousand ycars, and seemed likely to bccome paramount in every part of India, till two energetic champions of the old system appearcd. The great Medieval reviver of ritualistic Brähmanism was Kumārila, and of philosophical Brähmanism was Śankara. In the present day Brähmanisın is rather a philosophy than a religion, and one of its most remarkable characteristics is that it teaches a kind of triple trinity, that is to say, a trinity of co-eternal essences, constituting the one universal impersonal Spirit,-a trinity of material envelopes, investing, and personalizing that one Spirit, and a trinity of essential qualities dominating, and, as it were, fettering or binding that one Spirit when personalized.

Let me endeavour to make this more intelligible. The root-dogma of Brāhmanism is, as already stated, the belief in one infinite all-pervading impersonal Spirit, supposed to underlie everything in the Universe. And this one impersonal Spirit is held to be composed of three co-eternal impersonal Essences, namely, Existence (sat), Knowledge or Thought (čid), and Joy (ānanda). Again, when this impersonal Spirit wills to assume personality,-that is, when it wishes to exist in any object, to know anything, or be joyful about anything,-it is supposed to associate itself with the power of Illusion (māyā), and to invest itself with three corporeal envelopes:-1st, the causal body (kāraña-śarira), identified with Ajnāna or Ignorance; ${ }^{1}$ 2ndly, the subtle

[^91]body (linga-sarira) ; and 3rdly, the gross material body (sthūla-śarīra). With the first of these the impersonal Spirit is converted into a personal God, and becomes the Supreme Lord (İśvara, Parameśvara, etc.), who is the personal Ruler of the world.

To be strictly accurate, however, it ought to be stated that the Vedinta theory makes the assumption of these three bodies involve the assumption of three distinct divine personalities, each of which is supposed to invest a particular condition of spirit. With the first or causal body, the impersonal Spirit becomes the Supreme Lord (Parameśvara), supposed to represent the mystical aggregate of eausal bodies investing the inystical totality of dreamless human spirits; with the second or subtle body it becomes Hiraṇya-garbha (or Sūtrātmā, 'Thread-soul'), supposed to represent the aggregate of subtle bodies investing the totality of dreaming human spirits; and with the third or gross body it becomes Viräj (nom. Virāt), otherwise called Vaiśvānara, supposed to represent the aggregate of gross bodies investing the totality of waking human spirits. This third condition of spirit, or that of being wide awake, though with us considered to be the highest state, is by Hindī philosophers held to be the lowest, as furthest removed from unconseious spirit. In fact, higher than all three conditions of spirit is the fourth (turiya), or that of the impersonal Spirit itself. ${ }^{1}$ It must be borne in mind that ordinary philosophic thinkers kecp clear of these higher subtleties, or at lcast abstain from taking any aecount of them. The great mass of Hindī thinkers are practically Panthcists, but they confinc themselves to believing in one impersonal Spirit, who, by association with Illusion, becomes one Supreme personal God (Parameśrara). And this personal God, be it noted, whencver he engages in the creation, preservation, and dissolution of the Universe, is lield to be dominated by onc or other of three Qualitics (Gunas), which, balaneing each other in perfect cquipoise, are the

[^92]supposed constituents of his causal body. ${ }^{1}$ Be it noted, too, that these three qualities or conditions are the same as those which in the Sankhya system are the constituents of Prakriti, namely, Activity, Goodness, and Indifference (Rajas, Śattva, Tamas). ${ }^{2}$ They are those which in the later doctrine of the Purānas are held to separato the one Supreme personal God into the three divine personalities of Brahmā, Vishụn, and Rudra-Siva, each accompanied by his own consort. ${ }^{3}$ Dominated by Aetivity (Rajas) the Supreme lleing is Brahma the Creator ; by Goodness (Sattva), he is Vishunu, the Preserver; by Indifference (Tamas), he is Rudra, the Dissolver.

Whoever believes in this three-fold trinity-to wit, in three spiritual essences, three corporeal envelopes aud three dominating qualities, together constituting the Supreme personal God, and constituting also every individual human personality-is an adherent of orthodox Brähmanism.*

Thirdly, Śaivism grew out of Brähmanism. It was a doing away with the triune equality of Brahmī, Vishụu and Sira, and the merging of the former two gods in the latter god. Siva, in fact, becomes the one Supreme Lord. He is no longer the separate personification of the forees of dissolution. He represents to his worshippers the gathering into one personality of every conceivable divine force and fnnetion.

The destructive energies of wind and storm, once personified in the Vedic gods Rudra, and the Maruts, the all-consuming voracity of time, the fertilizing properties of dew and rain, the mighty agencies operating in creation, generation and regeneration, the mystic potency of selfmortification and penance, the mysterious efficacy of learning

[^93]and meditation, ${ }^{1}$ the occult power of magic (māyā), the terrific malignancy of demons-all these are centralized in one god, whose chief name is Śiva, "the Blessed one," whose person is supposed to be half male and half female, whose triple eye and trident probably symbolized his combining in himself the triple trinity of Brähmanism, and whose five faces probably typified the five collections (Samhitās) of the Vedas.

In short, Siva is all in all to his worshippers. He is both Brahmă and Brahmā. He is the one personal God, and the one impersonal Spirit. He is the Paramātmā and Māyā of the Vedānta philosophy, while in his character of half male half female he represents the Purusha and Prakriti of the Sānkhya system. Even to this day Śaivism is followed by some as a system of philosophy rather than as a religion.

Fourthly, Vaishṇavism grew out of Śaivism. It was a merging of Brahmā and Śiva in the god Vishṇu-originally a personification of the Sun. In fact, Vaishṇavism was a necessary consequence of Śaivism. It was a reaction from its pantheism, from its philosophical dualism, from its demonolatry and mother-worship. It was a protest against the tyranny of fear as the sole engrossing motive of religion. Not that Vaishnavism ever succeeded in neutralizing the natural dread of the forces of dissolution and the superstitious terror of demoniacal malice. To this day millions of worshippers at the shrines of Siva deprecate his anger and propitiate his favour.

Vast numbers, too, are addicted to the worship of different forms of his Śakti or consort, either as symbolizing maternity, or as the dark goddess (Kälī) who delights in destruction; and still greater numbers worship his son Gaṇeśathe lord of the demon host. Yet it is remarkable that those who select the male God Siva as their chosen personal divinity, in whose mantra they are initiated, to whom they look for salvation, and to whose heaven they hope to be

[^94]transportcd, are comparatively few. They are chicfly religious mendicants, Yogīs and Gosīins.

In fact, Śaivism is too severe and cold a system to exert exclusive influence over the generality of minds. Who can doubt that a more genial, human and humane god was needed,-a god who could satisfy the yearnings of the heart for a religion of faith and love, rather than of knowledge and works? Such a God was Vishṇu. The God who cvinced his sympathy with mundane suffering, his interest in human affiars, and his activity for the wclfare of all created things in his frequent descents (avatira) on earth, not only in the form of men, but of animals and even of plants and stoncs.

I will not here enter on the question of the connexion of Vishṇu-worship with Sun-worship, but we must bear in mind that the name Vishṇu properly means a Penetrator or Pervader. And it secms not improbable that the so-called incarnations of Vishṇu typify the periodical descents of the penetrating rays of Solar light and heat, and the apparently divine efficacy of these forces, not only as sources of health and vigour, but as the mainspring of all vegetable and animal life, of all human effort and industry.

Vaishṇavism then is the abolition of the triune equality of Brahmā, Śsa and Vishụu in favour of Vishṇu, especially as manifested in his two human incarnations, Krishṇa and Rāma. It is the only real religion of the Hindiss. Vedism was little more than reverential awe of the forces of Nature. and a desire to propitiate them. Brähmanism and Śaivism are simply philosophies. Sāktism and-to coin a new ex-pression-Gaṇeśism, both of which were grafted on Śaivism, are mere amalgams of mysticism, licentiousness and demonolatry.

Buddhism, which was a reformation of Brāhmanism and in its philosophy not dissimilar to Brāhmanism, gained many followers by its abolition of caste distinctions, but in its negations and theories of the non-existence of a Supreme Being and the non-eternity of soul, is no religion at all, and in this respect never commended itself generally to the Indian mind. Vaishṇavism alone possesses the essential
elements of a genuine religion. For there can be no true religion without personal devotion to a personal Godwithout trust in Him-without love for Him.

Still it cannot be doubted that one great cause of the spread of Vaishnavism in India was the fact that it could accommodate itself to other creeds and appropriate to itself the religious ideas of other systems.

It could, like Buddhism, preach liberty, equality, fraternity. It could inculeate universal benevolence, and abstinence from injury. It could be tolerant, comprehensive, elastie, allreceptive, many-sided. It could be pantheistie, monotheistic, dualistic, polytheistic. It could proelaim Buddha or any other great teacher to be an inearnation of Vishṇu. It could look with sympathizing condeseension on Christianity itself, and hold it to be a development of its orn theory of religion suited to Europeans.

It was thus that the worship of Vishṇu, especially in his human incarnations of Kṛishṇa and Rāma, beeame the one popular religion of India. And be it noted that Krishụa and Rāma were both Kshatriyas-both kings and heroes. It is usual to assert that the Brähmans are the highest objects of worship and honour among the Hindūs. This is not the case among the countless adberents of the Vaishṇava religion. The mass of the people of India exalt the divine right of Kings and the divine right of Government above all other forms of divine power, and worship every great and heroie leader as an incarnation of the deity.

Yet with all its tolerance of other systems, Vaishṇarism is not an example of a house at peace within itself. It has split up into various seets, whieh display no little of the orlium theologicum in their opposition to each other. Possibly antagonism of some kind is a nceessary condition of religious vitality, and it is not unlikely that Vaishṇavism owes mueh of its continued aetivity to its own internal contentions.

Before adverting to the distinctive features of the nore important seets, let me invite attention to eertain general characteristies common to the Vaishñava religion everywhere.

First, then, the bible of all worshippers of Vishụu in his
most popular manifestation-that of the hero Krishụa, with his favourite wife Radhā-consists of two chief books, the Bhāgavata-Purāna and the Bhagavad-gitā.

Those who worship the other popular manifcstation of Vishụu-the hero Rama, the great Indian pattern of filial and marital virtuc, the story of whose fidelity to his wifc Sitia is on cvery Hindir's lips-also acknowledge two special bibles in Vialnniki's Rāmāyaṇa, and in the Rāmāyaṇa of 'lulsī Dīs. Undoubtedly these four books, if any, ought to find a prominent place among the "Sacred l3ooks" of our Indian Empire. ${ }^{1}$

Secondly, a common and general characteristic of the Vaishṇava religion is a belief in a plurality of incarnations, but a point to be noted is that, although ten principal incarnations are described in the Puranas, only those of the heroes Kṛishṇa and Rama-the two divine heroes who most closely rescmble human beings-are gencrally worshipped. Nor are any idols set up in shrines and temples as objects of admiration except those which rescmble human forms. ${ }^{2}$

These images are supposed to be subject to all the conditions and necessitics incident to living humanity. Hence in the daily ritual they are washed, dressed, adorned, and even fed like human beings, food being daily placed before them, and its aroma, according to popular belief, nourishing the god present in the image.

We shall not be surprised, therefore, to find that another marked feature of all the sects is the worship of existing religious teachers who are supposed to be embodiments, not only of divine wisdom, but of the very essence of divinity.

[^95]In the foremost rank must always come the original Áciarya or founder of each particular sect. He is regarded as little inferior to Krishṇa himself, and may even be identified with him. The Guru, or living teacher, if not elevated to equal rank, is a greater reality. He receives homage as a visible and tangible mediator between earth and heaven. He is to the mass of Vaishṇavas even more than a mediator between themselves and God. He is the living embodiment of the entire essence of the deity (sarva-deva-mayah). Nay, he is even more. He is the present God whose anger is to be deprecated, and whose favour is to be conciliated, because they make themselves instantly felt.

Next, all the sects agree in requiring a special ceremony of initiation into their communion, accompanied by the repetition of a short formula of words, such as, "Reverence to Krishṇa " (Om Kṛishṇāya namaḥ), "Reverence to Rāma" (Om Rāmāya namaḥ), or the eight-syllabled formula, "Great Krishụa is my refuge" (Srī Krishṇah Śaraṇam mama).

Children are admitted to the religion of Vishṇu at the age of three or four years. A rosary or necklace (kaṇṭī) of one hundred and eight beads, ${ }^{1}$ made of tulsi wood, is passed round their necks by the officiating priest or Guru, and they are taught the use of one of the foregoing formulas, which is repeated by the Guru, very much as the sacred words "In Nomine Patris," etc., are repeated by the priest at the Christian ritc of baptism.

Then, at the age of twelve or thirteen, another rite is sometimes performed, corresponding to our confirmation. With the Vallabha sect it is obligatory and is called Dedication (Samarpana) of body, soul, and substance (tan, man, dhan) to Krishṇa. The formula taught is to the following cffect:-"I here dedicate to the holy Krishụa my bodily organs, my life, my inmost soul, and its faculties, with my wifc, my house, my children, with all the wealth I may acquirc here or licreafter, and my own self. $O$, Krishṇa, I am thy scrvant."

[^96]Again, all tho scets maintain that devotion to Tishṇu supersedes distinctions of caste.

All, too, believe that cvery faithful worshipper of Vishṇu is transported to the heaven of Vishụu, called Vaikuṇtha, or to that of Krishịa, called Goloka (instead of to the temporary Svarga or paradisc of orthodox Brähmanism), and that when onco admitted there, he is not liable to be born again on earth.

Another general characteristic of Vaishṇavism is tenderness towards animal lifc. In this it contrasts favourably with Śaivism. No life must bo taken by a worshipper of Vishṇu, not even that of the most minute insect, and not even for sacrifice to a deity (as for example to K $\bar{a} l \overline{1}$ ), and least of all must one's own life be taken. It is usual for missionaries to speak with horror of the self-immolation alleged to take place under the Car of Jagannāth (Krishṇa). But if dcaths occur, they must be accidental, as self-destruction is wholly opposed both to the letter and spirit of the Vaishṇava religion.

Lastly, it should be noted that the screral sects agree in adopting peculiar perpendicular marks on the forehead, called tilaka or pundra, made every morning after bathing with coloured earths or pigments - red, white, and black, especially with a white earth called gopi-ćandana. By these rertical marks all Vaishṇavas are distinguished from Śaivas, whose frontal marks are horizontal. The Vaishṇava vertical marks are supposed to denote the impress of Vishṇu's foot. They are believed to possess great prophylactic efficacy, and if made in the morning are supposed to insure the God's favour and protection during the entire day.

Taking now the four principal Vaishṇava sects-namely, that founded by Rāmānuja, by Madhva, by Ćaitanya and by Vallabha-in successive order, let us first notice a few characteristics of the system inaugurated by the great Vaishṇava leader Rāmānuja, born about the twelfth century at Strī (Śrī) Parambattūr, a town about twenty-six miles west of Madras. He is known to have taught at Käncici-puram (Conjivaram), and to have resided towards the end of his life at

Śrirangam, on the river Kaverī, near Trichinopoly, where for many years he worshipped Vishṇu in his character of Śriranganāth. His teaching was in some respects a modification of that of the Brähmanical revivalist and opponent of Buddhism, Śankara, who lived three or four centuries before. That great teacher was, as we hare seen, a strict Pantheist. He asserted that the one Universal Spirit (Brahmă) is the only real existing essence, and that the existence of everything else as distinct from Brahmă is all illusion.

Rāmānuja, on the other hand, contended that the external world has a real separate existence, and that the souls of men as long as they reside in the body are really different from the Universal Soul. In support of his doctrine of the diversity of souls he appealed to a text of the Rig-veda (i. 164. 20): "Two birds-the Supreme and Individual Souls-always united, of the same name, occupy the same tree (abide in the same body). One of them (the Individual Soul) enjoys the fruit of the fig (or consequence of acts), the other looks on as a witness."

Nevertheless, Rāmānuja adınitted the dcpendence of the human soul on the divine, and its ultimate onencss with the Supreme Being identified with Vishṇu. He held, in fact, the non-duality ( $a$-luaita) doctrine of the Vedanta philosophy, but gave it a special interpretation of his own, calling it, "qualified non-duality" (visishtēdeaita). Probably his theory of the Universe differed little from the view expressed in the lines

The sun, the moon, the stars, the seas, the hills and the plains, Are not these, 0 Soul, the vision of him who reigns?
Is not the vision He? though He be not that which He seems?
Dreams are true while they last, and do wo not live in dreams? ${ }^{\text { }}$
After Rāmānuja's dcath, his numerous followers, as usual, corrupted his teaching. Two great antagonistic parties resulted-one called the northern school, Vada-galai, or (Vada-kalai, Sanskrit kalä), the other the southern school,

[^97]Ten-galai (Ten-kalai). They are far more opposed to cach other than both parties are to Śaivas. The northern school accept the Sanskrit Veda. The southern have compiled a Veda of their own, called "the four thousand verses" (Nälayiria), written in Tamil, and held to be older than the Sanskrit Veda, but really based on its Upanishad portion. In all their worship they repeat selections from these Tamil verses.

An important difference of doctrine, caused by different views of the nature of the soul's dependence on the god Vishṇu, separates the two parties into two hostile caups. The view taken by the Yada-galais corresponds, in a manner, to the Arminian doctrine of "free-will." The soul, say they, lays hold of the Supreme Being by its own will and effort, just as the young monkey clings to its mother. This is called the monkey-theory (markata-nyàya). The view of the Ten-galais, on the other hand, resembles that of the Calvinists. It is technically styled "the cat-liold theory" (mārjā̃ra-nyạ̄a). The human soul, they argue, remains passive and helpless until acted on by the Supreme Spirit, just as the kitten remains passive and helpless until seized and transported, nolens volens, from place to place by the mother-cat.

Again, the Ten-galais maintain that the Sakti or wife of Vishṇu is a created and a finite being, though divine, and that she acts as a mediator or minister (purusha-kāra), not as an equal channel of salvation; whereas the Vadagalais regard her as, like her consort, infinite, and uncreated, and equally to be worshipped as a channel or means (upãya) by which salvation may be attained.
No Arminians and Calvinists have ever fought more rancorously over attempts to solve insoluble difficulties than have Tada-galais and Ten-galais over their struggles to secure the ascendency of their own theological opinions. The fight has ended in a drawn battle. Their disputes are now confined to insignificant questions. It is the old story repeated. The Sibboleths are intolerant of the Shibboleths. The Vada-galais contend that the frontal mark of the sect ought to represent
the impress of Vishṇu's right foot only (the supposed source of the divine Ganges), while the Ten-galais maintain that equal reverence is due to both the god's feet. The Vadagalais make a single white line between the eyes, curved to represent the sole of one foot, with a central red mark emblematical of Lakshmī, terminating at the bridge, while the Ten-galais employ a more complicated device symbolical of both feet, which are supposed to rest on a lotus throne, denoted by a white line drawn half down the nose. The complete Ten-galai symbol has the appearance of a trident, the two outer prongs (painted with white earth) standing for Vishṇu's two feet, the middle (painted red or yellow) for his consort Lakshmi, and the handle (or white line down the nose) representing the lotus throne.

Another point which distinguishes the Ten-galais is, that they prohibit their widows from shaving their heads. Every married woman in India is careful to preserve her hair intact. In the case of men, regular shaving is a religious duty. But for women to be deprived of any portion of their hair is a shame. A shorn female head is, except with the Ten-galais, the chief mark of widowhood.

A peculiarity common to both Rāmānuja sects is the strict privacy with which they eat and even prepare their meals. No Indians like to be looked at while eating. They are firm believers in the evil influence of the human eye (drishtidosha). The preparation of food is with high-caste natives an affair of equal secrecy. The mere glance of a man of inferior caste makes the greatest delicacies uneatable. The Rāmīnujas carry these ideas to an extravagant extreme. They carefully lock the doors of their kitchens, and protect their culinary and prandial operations from the gaze of even high-caste Brähmans of tribes and sects different from their own.

A noticeable point with regard to the Ten-galais is that they boast one of the finest temples in India-the great Pagoda of Śrīrangan, near Trichinopoly. This I visited in 1877. Śrirangam is, indeed, rather a sacred city than a temple. Hundreds of Brähmans reside within its precincts,
thousands of pious pilgrims throng its streets, myriads of worshippers erowd its corridors and press towards its sanctuary. No sight is to be seen in any part of Iudia that ean at all compare with the unique effect produced by its series of seven quadrangular inclosures formed by seven squares of massive walls, one within the other, every square pierced by four lofty gateways, and each gateway surmounted by pyramidal towers rivalling in altitude the adjacent roek of Trichinopoly. The idea is that eaeh square of walls stiall form courts of increasing sanctity, whieh shall conduct the worshipper by regular gradations to a central holy of holies of unique shape and proportions. ${ }^{1}$ In fact, the entire fabric of shrines, edifices, towers, and inelosures, is supposed to be a terrestrial counterpart of Vishṇu's heaven (Vaikunṭha), to which his votaries are destined to be transported. No wonder, then, that millious of rupees have been spent upon its construetion, and that at various times pious Kings have given up large portions of their revenues for its maintenance and enlargement.

In the centre of the inner wall of the temple, near the interior shrine on the north side, is a narrow door called hearen's gate. I was at Srirangam the day of the great festival celebrated at the end of the year. On this day the gate is opened, and on the occasion of my visit the opening took place at four o'elock in the morning. First the jewelled idol was borne through the narrow portal, followed by eighteen images of Vaishṇara saints. Then came innumerable priests chanting Vedie hymns or the thousand names of Vishṇu; then daneing-girls and bands of musicians. Finally, thousands upon thousands of people crowded for hours through the contraeted passage, amid deafening shouts and voeiferations, beating of drums, and diseordant sounds of all kinds of music, under the firm conviction that the passage of the earthly Heaven's gate, kept by the priests and unloeked at their bidding, would be a sure passport to Vishṇu's heaven after death.

[^98]The second most important of the Vaishṇava sects is that of the Mādhvas, founded by a Kanarese Brāhman named Madhva. He was born about the year 1200, at a place called Udupi, on the western coast (sixty miles north of Mangalore), and was educated in a convent at Anantes var. The chief aim of his teaching was opposition to the pantheistic A-dvaita (non-duality) doctrine of Śankarāćārya, the great Vedantist. Madhva is thought to owe some of his ideas to the influence of Christianity, which had made itself felt in the south of India before the thirteenth century.

And this leads me to declare my conviction that the Vaishnava religion, especially that of the Mādhva school, has far more common ground with Christianity than any other non-Christian religion in the world, not excepting Muhammadanism. And I make this assertion with a full knowledge of the hideous idolatry with which Vaishṇavism is associated, but which does not belong to its esoteric teaching. Madhva taught that the one God-of course identified with Vishṇuis supreme, that the Supreme Soul is essentially different from the human soul and from the material world, and that all three have a real and eternally distinct existence, and will remain eternally distinct. Yet the elements of the world, though existing from all eternity, were shaped, ordered, and arranged by the power of the Supremc.

The Madhva sect, like the Rämānujas and other Vaishnavas, lay great stress on branding or marking the body indelibly with the circular discus-shaped weapon and shcll of Vishṇu. The idea probably is that the trust of the god's followers in his power to deliver them from the malignity of evil demons ought to be denoted by some outward and visible sign. When I was at Tanjore, I found that one of the successors of Madhva had latcly arrived on his branding-visitation. He was engaged throughout the entire day in stamping his disciples, and recciving fecs from all according to their means.

The third principal division of Vishul-worshippers are those found in Bengal. They are the followers of a
celcbrated teacher named C'aitanya, whose biography, as given by native writers, is, as usual, chiefly legendary. Only scattered elements of truth are discoverable amidst a confused farrago of facts, fiction, and romance. Indeed, what respect for biographical accuracy can be expected in a people who are firmly convinced that their own existence and that of every one else is all illusion?

I believe it is tolerably certain that C'aitanya was born at Nadiya (=Navadripa), in Bengal, in the year 1485 of our era. He was held, as usual, to have been an incarnation of Krishụa, and of course various prodigies marked his first appearance in the world. Soon after his birth, at the end of an eclipse, a number of holy men arrived at the honse of his parents to do homage to the new-born child, and to present him with offerings of rice, fruits, gold, and silver. In his childhood he resembled the young Krishụa in condescending to boyish sports (lilū). Yet his intellect was so acutc, that he rapidly acquired a knowledge of Sanskrit grammar and literature, especially of the Bhàgavata-Purina.

Yct C'aitanya, notwithstanding his studious habits and pious frame of mind, was opposed to asceticism and celibacy. Most great religious teachers in India owe their influence to the fact of their haring abjured marriage. But C'aitanya, like his contemporary Vallabha in the north-west, made it a religious duty to marry, and even married again when his first wife died. It was not till the age of twenty-fire (A.D. 1509) that he resolved to abandon all worldly ease, and devote bimself to the propagation of religious truth.

Just about the time when Luther was agitating the minds of men in Europe, C'aitanya was stirring the hearts of the people of Bengal. His success as a preacher was remarkable. Eren his enemies were attracted by the persuasiveness of his manner and the magnetic power of his eloquence. The lower classes flocked to him by thousands. Nor was their admiration of him surprising. The first principle he inculated was that all the faithful worshippers of Kṛishṇa (= Vishṇu) were to be treated as equals. Caste was to be subordinated to faith
in Krishṇa. " "The mercy of God," said C'aitanya, " regards neither tribe nor family."

A leading feature of C'aitanya's teaching was that devotion of the soul to Vishṇu was symbolized under the figure of human love. "Thou art dear to my heart, thou art part of my soul," said a young man to his loved one; "I love thee, but why, I know not." So ought the worshipper to love Krishṇa, and worship him for his sake only.

To bring about this condition of intense religious fervour, various expedients were enjoined-such as incessant repetition of the deity's name (näma-kirrtana), singing (sankir'tana), music, dancing, or movements similar to dancing. ${ }^{2}$ C'aitanya was himself in the constant habit of swooning away in a paroxysm of ecstatic emotion, and his biographers assert that in one of these fits he was translated directly to Vishṇu's heaven about A.D. 1527.

As C'aitanya was none other than very Krishṇa incarnatc, so his two principal disciples, Advaita and Nityānanda, were believed to be manifestations of portions of the same deity. These threc leaders of the sect are called the three great lords (Prablus), and constitute a kind of sacred triad of this phase of Vaishṇavism. A fourth, named Hari-dās, who was a companion of C'aitanya, is worshipped as a separate divinity in Bengal. Furthermore, it must be borne in mind, that, just as in every other phase of Vaishṇavism, all the living successors and the present leaders of the sect, called Gosains, are venerated as little less than dcities.

The fourth great Vaishupava sect is that founded by Vallabha, or, as he is commonly called, Vallabhácirya, said to have been born in the forest of C'ampäranya about the same time as C'aitanya. Like the great teacher of Bengal he was believed to have been an embodiment of a portion of

[^99]Krishna's essence, and various miraculous stories are fabled about him. For instance, his intelligence is alleged to have been so great that when he commenced learning at seven years of age, he mastered the four Vedas, the six systems of Philosophy, and the eighteen Purinas in four months. After precocity so prodigious, he was able at the age of twelve to formulate his own view of the Vaishṇava creed. This view was not altogether new. It was to a certain extent derived from a previous teaeher named Vishṇu-svānni.

Yallabha's chief works were a commentary on the Bha-gavad-Gitā, and on the Bhāgavata-purāua, especially its tenth book-descriptive of the early life of Krishṇa-which last is the chief authoritative source of the doctrines of the sect. In philosophy Vallabha maintained Vedientist doetrines, and ealled his system "pure non-dualism" (Śuddhäraita), to distinguish it from the "qualified non-dualism" (Visishtülcaita) of Rāmānuja. He left behind him 84 diseiples who disseminated his doctrines. But the real successor to his Gīdi or ehair was his second son Vitṭhalnāth (sometimes called Gosīin-jī). This Viṭthalnāth had seven sons, each of whom established a Gūdī in different districts, especially in Bombay, Kuteh, K̄̄thiāmiar, and Malwa. The influence of Vallabhiéārya's successors became so great, particularly among the merchants and traders called Baniyas and Bhātiyas in Bombay, Gujarāt and Central India, that they reeeived the title Mahā-rīja," "great king," as well as Gosāin (a corruption of Gosvāmin-lord of corrs-an epithet of Krishụa).

Tallabha's view of religion and of the true way of salvation has been called Pushti-Märga, the way of eating, drinking and enjoring oneself. What he really taught was that life was a blessing given to every man to be enjored, and that the Deity did not require fasting, self-mortification, or suppression of the passions, and of the natural appetites. Like C'aitanya, he considered that human love typified the union of the soul with Krishṇa. He therefore enjoined

[^100]marriage, and was himself married. His suecessors have gone far beyond their leader. They are the Epicureans of India. They are not only married men and men of the world. They dress in the costliest raiment, feed on the daintiest viands, and abandon themselves to every form of sensuality and luxury. The god worshipped is the Kṛishṇa incarnation of Vishṇu, as he appeared in his boyhood, when, as a mere child, he gave himself up to childish mirth, and condescended to sport with the Gopis or cowherdesses of of Mathurā (Muttra). According to the higher teaching of Vallabha, the love of the Gopis, and especially of Rādhā for Kṛishṇa, was to be explained allegorically, and symbolized the longing of the human soul for union with the universal Soul (Brahma-sambandha). But the followers of Vallabha interpreted that attachment in a gross and material sense. Hence, their devotion to Krishṇa has degenerated into the most corrupt practiccs, and their whole system has become rotten to the core. Their men have brought themselves to believe that to win the favour of their god, they must dress like females. Even the Mahārājas, or spiritual chiefs, arc accustomed to dress like women when they lead the worship of their followers.

But far worse than this, these Mahārajas have come to be regarded as representatives of Krishṇa upon earth, or rather as aetual incarnations or impersonations of the god. So that in the temples where the Mahārajas do homage to the idols, men and women do homage to the Mahāraijas, prostrating themselves at their fect, offering them incense, fruits, and flowers, and waving lighted lamps before them. Onc mode of worshipping the boyish Kṛishṇa is by swinging his images in swings. Hence, women are accustomed to worship not Kṛishṇa, but his human representative, by swinging him in pendant scats. The Pān-supairī cjected from his mouth, the leavings of his food, and the very dust on which he has trod, are eagerly devoured by his devotees, while they also drink the water rinsed from his garments, and the very washings of his feet.

Nay, infinitcly worso than all this ; it is believed that the
best mode of propitiating the god Kṛishụa in heaven is by ministering to the sensual appetites of his vicars upon earth. Body and soul are literally made over to them, in the rite called Self-devotion, and women aro taught to believe that the highest bliss will be secured to themselves and their families by delivering up their persons to Krishna's representatives. ${ }^{1}$

No wonder that a corruption of the Vaishupa faith so abominable should have led to the modern Puritan movement, under the reformer Svāmi-Nārāyaṇa. This remarkable man, whose proper name was Sahajānanda, was a high-easte Brähman. IIe was born at Chapāi, a village one hundred and twenty miles to the north-cast of Lucknow, about the year 1780. Disgusted with the manner of life of the Vaishṇava Brähmans of his own time and neighbourhood, whose precepts and practice were utterly at variance, and with the, so to speak, Augean stable of Vallabhā́äryan licentiousness, he determined to attempt the Herculean task of cleansing it from its impurities. To this end he himself renounced marriage and a secular life. He was nevertheless a follower of the great leader Vallabha and a Vaishṇava to the back-bone. His only opposition was to the corrupt practices, which he contended were wholly incompatible with a right interpretation of the doctrines promulgated by Vallabha. ${ }^{2}$

About the year 1800, Sahajānanda took up his abode at Jūnagarh in Käthiawār (where there is still a Maṭa, or monastery of the Srāmi-Nārāyaṇa sect). There he placed himself under the guidance and protection of a Guru named Rāmīnanda Svīmī. About the year 1804, his protector removed to Ahmedābäd, and Sahajīnanda followed him.

In a large and populous city, a man like Sahijijananda, of evident ability and conspicuous sanetity of life, could not fail

[^101]to attract attention. Soon he collected a little band of disciples, which rapidly multiplied into an army of devoted adherents. At first he confined himself to making proselytes of those who were willing to abandon all intercourse with the world. Such men were enjoined to keep aloof from the adherents of every other system (para-dharma). Erentually all who accepted the Reformer's doctrines were freely admitted into the pale of the sect. Probably his success was due to a remarkable fascination of manner combined with consistency of moral character, and other qualities which singled him out for a leader. His persuasive eloquence acted like a spell on all who heard it. Some alleged that he had a power of mesmerizing his followers, which enabled him to throw them into a kind of a trance, and make them fancy they saw visions of Lakshmī-Nārāyaṇa. And without doubt his faculty of working himself up into a kind of cestatic ferrour may have had a fascinating and sympathetic effect on his disciples. At any rate they increased so rapidly that the Brāhmans of Ahmedābād began to be jealous of his popularity. He was obliged to fly, and sought refuge at Jetalpur, twelve miles south of Ahmedābād. There he invited all the Brāhmans of the neighbourhood to the performance of a great sacrifice. The native officials no sooncr heard of the proposed asscmblage than, fearing a collision between his followers and other religious parties, they had him arrested on some frivolous pretext and thrown into prison. Such an act of tyranny defeated its own object. It excited universal sympathy, and increased his influence. He was soon relcased. Hymns were composed in praise of his merits. Verses were written descriptive of his sufferings. Curses were launched at the heads of his persecutors. Jetalpur then became the focus of a great religious morement. Thousands flocked to the town and cnrolled themselves as the followers of Sahajannanda, who, from that time forward, took the name of Svämi-Nārayana.

Bishop Heber, in his Indian Journal, gives an interesting account of an intervicw with him at this period of his career. It is here abbrcriated :-
"About cleven o'clock I had the expected risit from Srāmi-

Närīyana. The holy man was a middle-sized, thin, plain-looking person, about my own age, with a mild and diffident expression of countenance, but nothing about him indicative of any extriordinary taleut. He eame in somewhat different style from all I had expeeted, having with him nearly two hundred horsemen. The guards of Svämi-Närāyaṇa were his orn disciples and enthusiastie admirers, men who had roluntarily repaired to hear his lessons, who now took a pride in doing lim honour, and who would cheerfully fight to the last drop of blood rather than suffer a fringe of his garment to be handled roughly. In my own parish of Hodnet there were onee, perhaps, a few honest country-men who felt something like this for me, but how long a time must elapse before a Christian Minister in India can hope to be thus loved and honoured."

It soon became clear that the success of Svimi-Nāriyana's future operations would depend on the consolidation of his party. He therefore retired with his followers to the secluded village of Wartial, where he erected a temple to Närīyaṇa (otherwise Kṛishṇa, or Vishṇu, as the Supreme Being), associated with the goddess Lakshmi. It was from this central locality that his efforts to purify the Vallabhiicaryan system were principally carried on. The keynote of his teaching seems to have been "devotion to Krrishṇa-as the Supreme Being-with observance of duty, chastity, and purity of life."

He was in the habit of making periodical tours through portions of Gujarāt, especially Kāthī̄̄"ār, like a bishop visiting his diocese. It was in one of these tours, on the 28th of October, 1829, that Svämi-Nāràyaṇa was struck down by fever and died, when he was about 49 years of age. His disciples, of course, very soon deified him as an incarnation of Vishṇu. They now number more than 200,000 persons, and are divided into two great classes-Sādhus, ${ }^{1}$ "holy men," and Grịihasthas, "householders." These correspond to clergy and laity, the former, who are all celibates, being supported by the householders, who are only allowed

[^102]one wife. Those Sādhus who are Brāhmans are called Brahmaćāris. Of these there are about 300 at Wartāl, the whole body of Sādhus, or holy men, numbering about 1,000 . A still lower order is called Pāla. Of these there are about 500.

There are two principal temples of the sect; one at Wartāl (for Vrittālaya, or, as some say, for Vratālaya, " abode of religious observances"), about four miles to the west of the Boravi Station of the Baroda Railway; another at Ahmedābād. The former is the most important and best endowed, but both are presided over by Mahārājas, neither of whom is willing to yield precedence to the other. This looks as if the sect were already following the usual law of internal division and disagreement, to be followed in due course by a separation into two antagonistic parties. In 1875 I visited the Wartā temple, on the day of the Pūrnimā, or full moon of the month Kärtik - the most popular festival of the whole year. I was conducted by the Mahārāja through a crowd of at least ten thousand persons, in which the conspicuous absence of women was to an European very remarkable. The throng was packed closely in the large quadrangle, and filled up all the approaches to the temple. They were waiting to be admitted to the one ceremony of the day, and the one object that had drawn so many people to one spotthe privilege of Dar'sana, or a sight of the principal idol. It was a moment of tremendous excitement. Every countenance seemed set with an expression of intense eagerness in the direction of the temple door. Let a man but catch a glimpse of the jewelled image on this anniversary, and the blessing of the god attends him for the whole year. The vast concourse swayed to and fro like the waves of a troubled sea, each man vociferating and gesticulating in a manner quite appalling to an Englishman unaccustomed to such exhibitions of religious enthusiasm. ${ }^{2}$ Nevertheless, the ten thousand

[^103]people were docile as children. At a signal from the Mahāriaja, they made a lane for us to pass, and we entered the temple by a handsome flight of steps. The interior is surrounded by idol-shrines, containing varions representations of Vishnuu and his consort.

The first shrine contains three images-that on the left of the spectator is of Krishụa (as son of Vasudeva) ; Dharma (a name of Vasudeva) is in the centre, and Bhakti (Kṛishụa's mother Devatī) on the right. There is also an image of Vishṇu's vehicle Garuda in this shrine. One of the principal shrines, or that next in order, has three figures; that on the left of the spectator is an idol of Krishna in his character of Ran-chor ('fight-quitter'). This is a form of K!ishua specially worshipped at Dwārakā. Some interpret the name to mean 'sin-deliverer,' but it may hare reference to his declining to take part in the great war between the sons of Pandu and Dhṛitarāshṭra. In the middle is an image of Näràyaṇa or of Vishṇu as the Supreme Being, while Lakshmì, consort of Vishṇu, is on the right. A gong is suspended before the shrine, which is struck in the performance of pūjā and ärti.

Another principal shrine has Kṛishṇa in the middle, his favourite Rādhā on the right, and Svīmi-Nārāyana, the founder of the sect, on the left. He is here worshipped as a kind of tenth incarnation of Vishṇu. Sometimes in this character he is called the Narāratāra, or Man-incarnation (the tenth being properly the Kalky-avataira, sometimes called Aśrinvatāra, horse-incarnation). Another shrine contains the bed and clothes once used by Svāmi-Nārāyaṇa. On one side is the print of his foot and on the other are his wooden slippers. The remaining shrines represent various incarnations of Vishṇu, such as the fish, the man-lion, and the boar. Under a central dome are representations of the Rama incarnations, and in the centre of the floor is a well-

[^104]carved marble turtle, which probably has reference to the Tortoise incarnation of Vishnuu. On the occasion of the present festival the principal images were almost concealed from view by rich vestments and jewelry.

I was next conducted to the Sabhä-maṇlapa, or great hall of assembly, on one side of the quadrangle. Here about two thousand of the chief members of the sect, including a number of the Sādhus, or clergy, were waiting to receive us. Chairs were placed for us in the contre of the hall, and before us, seated on the ground, with their legs folded under them in the usual Indian attitude, were two rows of about thirty of the oldest Sädhus, three or four of whom had been actually contemporaries of Svāmi-Nārāyaṇa. These old men were delighted when I questioned them as to their personal knowledge of their founder. The only inconvenience was that they all wanted to talk together. I found the Paṇdits among them well versed in Sanskrit. One or two astonished me by the fluency with which they spoke it, and by their readiness in answering the difficult questions with which I tested their knowledge.

The Mahäraja's last act of courtcsy was to conduct me to an adjacent building, used as a lodging-house, or asylum (dharma-sialā), for the clergy. On the present anniversary at least six hundred of these good men were collected in long spacious gallcries, called Ásramas (places of retreat). They were all dressed alike in plain salmon-coloured clothes, each man being located in a small scparated space, not more than seven feet long, by three or four broad. Above his head, neatly arranged in racks, were his spare clothes, water-jar, etc.

When I was introduced to the six hundred Sädhus, they all stood upright, motionless, and silent. At night they lie down on the hard ground in the same narrow space. These holy men are all celibates. They are supposed to have abandoned all worldly tics, that they may go forth mencumbered to checr, support, and keep watch on cach other. They travel on foot, undergoing many privations and hardships, and taking nothing with them but a staff, the clothes
on their back, their daily food, their water-jar, and their book of instructions. They may be seen here and there interspersed anong the crowds which throng the towns of Western India, attracting attention by their salmon-coloured garments, and apparently striving to win disciples by personal cxample and self-denying habits, rather than by controversy.

What I saw of their whole system convinced me that the Srāmi-Näräyaṇas are a shrewd, energetic body of men, and their sect an advancing one. Notwithstanding the asceticism of their clergy, the Mahärajas are, I believe, married men, and tho leading members of the community have a keen eye to tho acquisition of money, land, and property.

After my discussion with some of their Pandlits, I was presented with their Sikshī-patrī, or manual of instructions, written in Sanskrit (with a long commentary), constituting the religious directory of the sect. It is in the form of an epistle written by their Founder, with the aid of a lcarned Brāhman named Dīna-nāth, and is a collection of two hundred and twelve precepts-some original, some extracted from Manu and other sacred Śāstras.

Erery educated member of the sect appeared to know the whole collection by heart. Specimens of the verses were recited to me by the Pandits, with the correct intonation, in the original Sanskrit.

Without doubt the tendency of the doctrines inculcated is towards purity of life and conduct. Salvation is to be attained not merely by entire derotion of the soul to the Supreme Being, under his names of Nārāyaṇa, Vishṇu, and Krishṇa, but by a faithful discharge of the duties (dharma) of religion, and by control of the passions, and purity of conduct.

Eight sacred books are enumerated as inspired authoritative guides, and of these the two especially used are the Bhāgavata-Purāna and the Bhagavad-Gītā. The philosophy enjoined is that modified form of the Vedānta system, called 'qualified non-quality' (Visishṭàdvaita), as taught by the first great Vaishṇava leader Rāmānuja. In fact it is clear that, with the exception of the substitution of Vishṇu or Kṛishṇa
and his consorts for Brahman, the philosophical doctrines of the sect differ very little from pure Brähmanism.

I have prepared a printed edition of the whole Directory with an English translation, both of which will appear in a subsequent number of this Journal, and will, I hope, give a fair idea of the purer side of modern Vaishṇavism.

The system is doubtless saturated with the grossest idolatry and superstition, but it will be seen that many of its precepts contain high moral sentiments, some of which are even worthy of Christianity.

At any rate they prove that in their earnest efforts to purify the corrupt creed of the Mahārājas, the Svāmi-Nārāyanas are worthy of commendation and encouragement. I can testify to the good they have effected in Western India, where the immoralities of the successors of Vallabha have for a long time scandalized every respectable member of the community.

As a reforming sect, the followers of Svāmi-Nārāyaṇa will, in my opinion, increase and extend their influence for a time; but their system lacks the true vivifying regenerating force which can alone maintain it in vigour, and, like other Indian reformations and religious revivals, is, I fear, destined in the end to be drawn back into the all-absorbing vortex of corrupt Hindūism.

Art. XX. - Further Note on the Apology of Al-Kimdy. By Sir W. Murk, K.C.S.I., D.C.L., IL.D.

Witil reference to my paper on the Apology of Al-Kindy, I have received the following letter from Professor Ignatius Guidi, dated Rome, 24th February :-
"You will be glad to hear that in the Propaganda Library (Museo Borgiani) I found a MS. of the Apology of Al-Kindî, together with the letter of his Moslem friend. The amanuensis was, I think, a Jacobite (the MS. is written in Karshuni character), hence he says (page 5, line 18 of the printed text):
 The Roman MS. is apparently of the same family with the Paris MS. as described by Zotenberg, Catulogue des MSS. Syriaques de lu Biblioth. Nationale, Nos. 204, 205."

In a subsequent communication, dated 12th March, M. Ign. Guidi adds:-
"The Propaganda MS. of Al-Kindy's Apology has, at the end of the letter of the Moslem, a note which states that a certain Abuna Salîbâ the Moslem; then a certain Mûsâ transcribed, from the copy of Abûnâ Salîbâ, the MS. now in the Propaganda, in the year of the Greeks 1957, corresponding with 1052 of the Hegira (1642-3 A.D.).
"The MS. is in octavo, and has 18 lines in every page; the letter of the Moslem occupies 16 pages; it seems therefore to be a little shorter than the printed text."

[^105]The notices referred to above from Zotenberg's Catalogue are as follows, pp. 155, 156 :
"204. No. 8 (fol. 124v.) Apologie de la religion chrétienne, par un chrétien Jacobite (Jacque al Kindi) addressée, sous le forme de lettre, à un Musulman qui l'avait attaquée. En Carschouni ;
"205. Apologie de la religione chrétienne, par Jacques le Kindien, Jacobite, en réponse à une attaque d'un Musulman de la famille de Haschim. En Carschouni . . . . Lc préface est suivi de la lettre abrégée du Musulman. L'ouvrage proprement dit commence ainsi . . . . Cet exemplaire ne renferme pas la conclusion qui se trouve dans l'autre copie.
"Ce MS. a été exécuté en 1934 des Grecs ( 1619 de J.C.). La copie fut commencée par la diacre Salibi, de Damas, qui à abrégé lui-même la lettre Mahométane, et qui ajouté plusieurs notes marginales. La transcription a été continuée et terminée par son frere, le diacre Joané, et deux autres diacres, Serge et Moise.
". . . . . Il est à croire que l'ourrage n'était pas designe par un titre particulier."

The Apology thus reaches us through the medium of MSS. belonging to two distinct familics. First, the Arabic proper, handed down by the Nestorian section of the Church, which I take to be the original form in which the Apology appeared. Secondly, the Karshuny, or Arabic in Syriac character, handed down by the Jacobite Church;-which explains the appellation which I took to be a mistake in M. de Sacy's article (sec p. vi of my paper).

The Karshuni family of MSS. is shown by Prof. Guidi's notes to have existed in a separate and independent form, at any rate Two and a half centuries ago.

## Ant. NXI. - The Buddhist Caves of Afghanistan. By Wilfiam Simpson.

In going through the Khyber Pass I saw numerous recesses in the rocks which struck me as places which might have been used by ascetics, but they indicated no signs of having been excavated, hence nothing definite could be assumed regarding them. In the scarp under the Ishpola Tope there is one of these rude niches which would be a very desirable spot for a holy man to retire to, who wished to give up the things of this world, but who at the same time had some intention that his light should not be hid under a bushel, for if an ascetic ever made it his residence, every passer-by must have seen him, high above the road, with little more than a fair allowance of space in which to sit cross-legged. From the immense number of caves I afterwards saw which had been excarated, indicating that a very large monastic population had cxisted, I have now little doubt that during the fervour of asceticism in the Buddhist period, most of these rocky niches had been thus occupied at onc time or another. At Daka there are a few caves which have been cxcaratcd, but they are little more than holes.

It was at Basarrul, the next march beyond Daka, that we came upon the first large group of caves. They may number about one hundred, and have been excarated, close to the village of Chicknoor, at rarying heights along the base of a rocky hill, known as the Koh-be-Doulut, or "The Worthless Mountain," for nothing will grow on its steep rocky sides. This is on the left bank of the Kabul River, and I was indebted to General Macpherson for the means of crossing to see them. A large raft floating on inflated bullock-hides was procured, and on it, a party, including the General and a guard of Ghoorkhas, were ferried over. The Pushtoo word for cave is sumutch, but pronounced very
nearly as if written smutch; the natives previous to our going over had given us a wonderful account of these caves; describing them as extending far into the mountain, a hundred miles and more, we were told, and that through one of them there was a road to Kashmir. They also stated that many of them were inhabited, and that the people kept large flocks in them. From these statements some of the officers took over lanterns so as to be able to explore these labyrinthine recesses, and revolvers were not forgotten in casc of attack. It was rather remarkable to receive such extravagant accounts with the caves themselves within sight. A traveller passing along might have learnt all this, and recounted it again in perfect good faith, and the marvellous caves of Chicknoor might have been much talked about.

A visit across the river dispelled the illusion. There was not a living thing found in any of them, and their extent was limited to about 20 or 30 fcet of penetration into the rock; they were all very similar, each having a circular roof, from which they might be described as not unlike a series of small railway arches, their width being perhaps 10 or 12 fect. In one case two of the caves were conneeted by a passage behind, but the passage was not longer than the eaves themselves. These excavations might be divided into two groups, the largest being at the east end of the Koh-be-Doulut, near to Chicknoor ; the caves here were probably the oldest, for some of them were in a very dilapidated condition,-while on those higher up the river a few fragments of plaster were visiblc. Although we found no one in the caves, it turned out that the Koochis, who are a migratory tribe with camels and flocks, come down to the lower regions in the winter, and occupy the eaves, leaving them again about April. In some parts of the Jclalabad valley we found a large population of these people in Caves, and the result has been not only the destruction of the plaster, but also the blackening of it, so that all inseriptions, paintings, or colour of any kind, wherever it existed, has in almost cvery case ceased to be visible. This is much to be regretted; the Caves scem to have been all


THE BUODHIST CAVES IN AFGHANISTAN.


THE BUDDHIST CAVES IN AFGHANISTAN.


THE BUDDHIST CAVES IN afghanistan.


THE BUDDHIST CAVES IN AFGHANISTAN.
covered with plaster; many of them were no doubt painted, but of this only some few remains were found, the little that is left suggesting, however, that a great quantity of valuable material has been destroyed by the Koochis utilizing the Caves.

As the Afghanistan Caves were all but new to me, it was necessary to be eareful in coming to any conelnsion as to who their eonstructors had been. At first, that is, so far as the Chicknoor Caves threw light on the subjeet, the origin of the Cares was far from being evident. The Koochis living in these reeesses with their floeks made it possible that they had been exeavated for dwelling in; this was the general idea among the party who had gone over to see them. I rather snspeeted their Buddhist origin, and the repetition of the cireular roof in them all, as well as their uniform size and shape, led me to think that some type had been rigidly followed as a pattern. It struck me that if they had been originally construeted as habitations, more variety would have been given to them from the varied requirements of different individuals. It was only after seeing the vast quantity of Caves in the Jelalabad valley, that their origin beeame a certainty in my mind. Their constant association with topes, and mounds of Buddhist remains, made it evident that there was some connection between them. In almost every ease where there was a searp of rock under the mounds, Caves existed in it ; and as in most cases the Topes had been erceted on elevated spots, there were few remains near which the Caves were not found. The remains of structural Viharas could often be distinguished from that of the Topes, and it may be a point worth noting, that Caves and Viharas existed together.

What these two very different kinds of residences implied I cannot pretend to determine; but they naturally suggest that some point of distinction is indicated. It is quite possible that they have a chronological sequence ; that the Monks divelt in Caves at first, and that the Viharas eame into use afterwards; or the opposite may hare been the case. Unfortunately, from the decayed condition of the Caves, and the complete demolition of the Viharas, nothing can as yet be said as to the probable date of either. There is another question which
often eame into my mind when on the spot, and that was as to whether the Caves or the Topes had come into existence first. It may have been that, when a Tope was erected, the Caves and Viharas were constructed for the attendant Monks; or it is equally possible, and if anything I think it is the most likely of the two theories, that the Caves and the Monks first existed at these spots, and that, if any of them attained to a high reputation for sanetity, he would most probably have been honoured with a Tope containing his ashes, and thus begun the group above, which is now represented by the mound. Beyond a surmise of this kind, I have no evidence to offer on the subject. ${ }^{1}$

There were some marked exceptions as to the form of the Caves, but the great mass of them were similar to those at Chieknoor;-they are simply oblong reeesses, and in nearly every ease with a circular roof. They vary in dimensions, but as an average size I would say they are about 20 ft . in length, 10 feet wide, and about 12 feet high (see plate 2). In a great many of them there was a small rude recess cut on one side, on the level of the floor, or only a few inches above it. From their size, these recesses suggested that their purpose had been for sleeping in, and from their rough, irregular appearance, it is possible that they were not exeavated at the same time as the Caves; if this has been the ease, it would imply a change at some time in the habits, or rules, of the Monks who dwelt in them. In this I assume that these Caves were used as eells by the aseeties, but from what I have seen of the Buddhists in Tibet, and elsewhere, I have no doubt but eaeh Cave would be at the same time a place in which religious services would be performed, and that pilgrims and pious individuals would visit them on aecount of the sanetity of their inmates. The Cares, although small, were, we may suppose, mueh larger than the cells of the ordinary Viharas, and were therefore eapablo of being

[^106]used as chapels. According to Hardy's Eastern Monachism, the space allowed for the Buddhist ascetics of Ceylon was 12 spans long by 7 spans wide,-now that would be about the size of the recesscs just described. If I recollect right, the Caves of Ceylon are single, like those in Afghanistan, thus contrasting in their arrangement with the groups round a larger central Cave, such as we find in Western India. The oldest Cares in India are those near Buddha Gaya in Bengal, and they are also of the single kind; showing that this was the first type in use by the Buddhist ascetics. The groups round a central cell, or chapel, now known as "Vihara Cares," were a later development ; it thus becomes crident that if the Afghanistan Caves were derived from India, it must have bcen at an early datc, when the single cell was the rule. The great rescmblance between the Afghanistan Caves and those at Buddha Gaya suggests that therc had becn a following of the model cither on the one side or the other, and one naturally concludes that the Bengal group is the oldest. As our knowledge of datcs in the one case is a blank, this can only be put as an assumption, and we must wait with patience in hopes that further light nay be brought to bear on the subject. ${ }^{1}$

The Cares of India were derived, so far as their forms are concerned, from the wooden architecture of the period, and the early examples of Barabar and Rajgir are no exceptions to the rule; in the case of those last named this is evident from the doorway of the Lomas Rishi Care, in which the wooden forms are rery beautifully copied in the rock. From this it is assumed that the circular roof of that Care, as well as of the others in the same locality, were derived from the round wooden roofs of the houses of the period, and as this circular roof is common to the Afghanistan Caves, it becomes an evidence in favour of the idea that the Bengal type was the model which had been carried to the North-West. There are other links of evidence in addition to this. In some of

[^107]the Bengal Caves there is a drip under the circular roof, and this I found in one of the Caves at Hada. To this there is still another feature of identification; -in the doorway of the Lomas Rishi Cave it will be noticed that the jambs slope inwards above; this is also found at Bhaja and among the older of the Western Caves. The peculiarity belongs also to the remains of Buddhist Architecture in Afghanistan, and in the Cave at Tappa Zurgaran at Hada, where the plaster remained in some parts in a tolerably perfect state, and where the drip just mentioned was quite perfect,-the inward slope of the walls upwards was also a distinct feature (see section of Cave in plate 2). It may be mentioned that some of the Caves had flat roofs, but these were the exception,-as an instance there is one in a group, near to Darunta; the group is called, from there being a number of Caves connected by a very long communicating tunnel, the "Bazaar," to be afterwards described. The roof in this case may perhaps have been originally very slightly curved in the centre, it is connected with the perpendiculars on each side by a well-defined curre, the whole outline of the roof appearing to be a very flat ellipse. I have a section of a roof from a small Cave at Tappa Zurgaran which is of this form (see section in plate 2).

I came upon only one Cave which resembled the Rock-cut Viharas of Western India. This is in the same cliff as the Pheel-Khana Cave, to which it adjoins. There was a stair which led up to the Cave, which is now all but gone, some worn remains of a few of the steps are still to be seen ; a large square chamber has been formed, about 42 fcet by 41 fect: a large square mass has been left as a support in the centre, 14 feet square. On three sides there are cells, three on two of the sides and four on the other, making ten in all, and on the fourth side there are two apertures which open out to the cliff to let in light. The whole Cave is very rudely formed,a cornice perhaps existed round the central support, but it is all so rough, this is uncertain; the cells are, if anything, still ruder,-the better formed ones being round in the roof like the other Caves of the region,-some of them being little better than holes; still these recesses, primitive as they are,
are very different from those in the other Caves already described,-the difference consisting in their greatest dimension being at right angles to the Cave, and in their widening out in the inside, this giving them the character of a cell in contradistinction to a recess. This peculiarity of the cells, as well as the general character of the whole Cave, led me to the idea that it had been excavated from a description by some one who had seen the Vihara Caves of Western India. If this is the case, it gives us a limit for the antiquity of its date.

On the right of this Cave is the one known in the present day as the Pheel-Khana Cave, and which gives the name used by the natives to the whole group of Caves, mounds, and remains of at least one Tope,-the "Tope Gudara" of Masson. This Cave is so exceptional in its character that it might be doubted if it belonged to the Buddhists, for none of the peenliarities of their excavations are found in it. It has a large opening, perhaps about 20 feet high, narrow at the top and wide below, like a pointed Gothic arch, only these words suggest an architectural character which would mislead in this case ; the Cave turus from the entrance at right angles to the south, from which there is a narrow passage to the outside, where it meets a similar passage from the entrance. The place is large enough to have kept an elephant, which is implied by its name, which is "Elephant House"; and as the site for Nagarahara, the ancient capital of the district, which I have proposed, was on the other side of the Kabul River, ${ }^{1}$ exactly opposite, it is quite possible that in former times it may have been used for this purpose. A plan of the Vihara and the Pheel Khana Cave is given in plate 3.

Judging by the remains at this place, there must have been a large colony of Monks about it during the Buddhist period. On the west side there is a high cliff overhanging the Kabul River, and in the most prominent part of it there is a large niche, in which, I came to the conclusion, there had been at one time a colossal figure of Buddha. No remains of the

[^108]statue are now visible, for it may have been formed only of mud and covered with a thin coating of Chunam, which was the material of which a fragment of a large figure was made I came upon in my explorations at the Ahin Posh Tope. The reason for supposing this niche had a figure in it, was owing to there being no means of reaching the recess. On the south of the niche are five Caves similar to the other Cares in this locality;-they were inaccessible from the river, so a long tunnel had been cut behind them, thus making a means of communication. As this tunnel with its openings into the Caves has the appearance of an underground street, it has received the name of the "Bazaar." There is a shorter tunnel which crosses the long one at an angle, and its object is not quite clear, but I think it may have been to give light to the larger tunnel, or it was formed as a passage to a balcony, or ledge, which had been cut in the cliff in front of the Caves. The remains of what I take to have been the ledge are so decayed that I can only put this as a guess, but the longest tunnel is continued beyond the last of the Cares, when it turns towards the river, and at this point the ledge still exists, and leads to a small recess in a corner of the cliff. If it existed thus far, the natural conclusion is that it went round to the front of the great niche where the figure of Buddha sat, so that the devotees could pass round and make their obeisance before it. This extension of the tunnel beyond the Caves shows that its principal object was not so much to lead to them as to the colossal statue. A plan of this curious group of Caves will be found in plate 4.

The rock is very soft sandstone, with layers of conglomerate, and the five Caves are excavated partly in both, the conglomerate being in the lower part of the Cares, and the sandstone above. The last, although very soft, has stood the effects of time better than the harder conglomerate, except in the roofs, where it has fallen down in flat masses. This made the original form of the roofs doubtful, but one of them I thought must have been flat, and has already been alluded to. The Caves may be about 12 or 13 fect wide and about 20 feet long, and each had the usual small recess on the
side. They must have formed rery pleasant places to reside in, looking out over the river towards the Siah Koh, or Black Mountain, along the base of which there were numerous Topes and Viharas about a mile and a half distant.

Abore these Caves, among many mounds and remains, is the Pheel Khana Tope, and still higher than it is another excavation which ought to be deseribed. It is a rude, square niche, perhaps about 15 or 20 feet high. It has openings to the south and the west, so that the figure, which, from the height of the niehe, I suppose to have been a standing one, could have been seen from the two sides. The niche presents no architeetural features, unless it be that of the trefoil arch, so peculiar to the trans-Indus structures, and this was so very rudely done, that the intention of the maker might pass unnoticed. In this niehe were some hands, of a very primitive style of art, cut in the soft sandstone; similar hands were also on the walls of the Caves below. My first impression was that they were modern, but notieing that the sandstone, soft as it was, had been more durable than the conglomeratc, I am now inclined to believe that they may be as old as the Buddhist period. The existence of somewhat similar hands on the sculptures at Bharhut tends to confirm this. A sketch of one of these hands is giren in plate 4.

This does not exhaust the rock-cut excavations at this place. Low down in the cliff under the "Bazaar" can be seen some small tunnels; these were aqueducts, and the current of the river has carried the rock array in many places, thus making them seem numerous, but there is more than one tunnel, and they are not all on the same level, which probably implies that the water was taken from different heights, at separate points of the river, to irrigate the higher as well as the lower parts of the plain of Besud, opposite Jelalabad. In the eliffs still lower down the river the continuation of these aqueducts can also be seen, and one which gets its supply below the Pheel Khana Care still carries rater to Besud. It would be important to knor if these aqueducts are as old as the Buddhist period, but that point cannot be settled rith certainty. The remains of an aqueduct with a tunnel through a hill at Girdi

Kas is associated by the people there with the Badshahs of Delhi; but our Engineer officers reported to me the existence of "Buddhist masonry" in it,-this, as well as other considerations, inclines me to believe that these hydraulic works are all older than the Mahomedan era. Amongst these considerations, it may be mentioned that at Hada there is a rock-cut conduit under the mounds at that place, and we may safely assume its date to be as far back as the Buddhist period.

At Hada, the Milo, or Midda of Hiouen Thsang, there are numerous examples of Topes and mounds with Caves beneath them in the conglomerate cliffs. About half a mile to the west of the great mass of remains at that place is an irregular elevation in the plain covered with mounds, where cliffs are picrced with a very interesting group of Caves. Masson gives the spot the name of Tappa Zurgaran, or "The Goldsmith's Mound." The largest Cave in this group is known at the present day by the name of the "Palace of the Hoda Rajah"-Masson calls him Hudi or Udi, ${ }^{1}$-who seems to be a very legendary character. General Cunningham says that Khairabad opposite Attock on the Indus is believed by the people in that locality to have been "the stronghold of Raja Hodi or Udi." ${ }^{2}$ According to the present inhabitants of Hada this Cave is of interminable extent, and the Chicknoor legend was also affirmed about it, that it communicated with Kashmir. Colonel Tanner, who was on the Survey Department with General Sir Samucl Browne's column, had some excavations made into it, and the gencral character was brought to light. A plan of it will be found in plate 2. The only part that was not explored was at the southeast corner, where a continuation is blocked up by stones. This most probably only communicated with another entrance

[^109]from the front. One continuation behind terminated where a perpendicular shaft exists; and another which branches off obliquely comes out again into a hollow, thus forming a sort of "back-door" to the place. The ramifications of this Cave it will be seen from the plan, where the dimensions are given, makes it, with the exception of the "Bazaar," already described, the largest of the Caves I had seen in the Jelalabad Valley. At the entrance of this Cave the plaster was left in tolerably fair condition, and the scetion with eireular roof, given in plate 2, is taken from it. In the rubbish at the entrance there were found some pieces of a Corinthian capital, and a fragment of a round stone ornamented with lotus leaves, which had probably been the base of a statue. These had no doubt tumbled down from some structures above, of which the foundations were visible.

To the north of the Palace of the Moda Rajah, and in the same cliff, are a number of Caves, thrce or four of which are exceptional in their form. They are square in plan, with flat roofs, but the roofs have domes in their centres. The domes are round in all except one, which is conical, or of a tent shape (see plate 5). These Cares are very small, the one with the conical dome is of very restricted dimensions, being about 6 feet square; the dome is 3 feet 2 inches diameter, and about the same in height ; the circular formed dome, given in plate 5 , is 7 feet 3 inches diameter, and its height is 3 feet. The Care, of which a plan is given in same plate, was larger ; still it is only 13 feet square, and the dome is 9 feet diameter. This had eight small niches, two near each corner: these were about 2 feet 6 inches wide, and about 3 feet high, arched at the top. In one of these Caves part of a circular base was found under the dome. There was not enough left to determine whether it was the pedestal of a statue, or the base of a small Tope; so that that point is left uncertain. I am inclined to think that this exceptional form of cave was excarated to contain Topes.

We have no counterpart to these Caves in India, that I can remember, except it be the circular inner recess of the Lomas Rishi, Viswa Mitra, and the Sudama Caves at Barabar,
the recesses of which are domed, and were supposed to have contained Topes. Although these square Caves at Hada are in some respects widely different from those at Barabar, still I am struck while writing by the case of having to recur again to the Bengal examples for the type of the Afghanistan excavations.

This last group of Caves being so small they have escaped the ruinous results of having been occupied by the Koochis, and some traces of paintings are still visible on them. The domes seem to have had one or two belts of panels all round represented in colour, and in cach pancl was a figure, little more than a head and shoulders, the background being either a trefoil arch, or a nimbus round the head,-the effort to represent them in plate 5 makes them far too distinct, for what is left of them is very shadowy. The smallest of the Caves, -that with the tent-shaped dome, from its littlencss, seems to have cscaped all the influences of smoke, and there is in it a fragment of a painting in which the colours are still very bright, particularly a background which is of emerald green,-if that colour was known to the painters of the period. The plaster has been knocked off in large patches, and this picture has not escaped. The background of green is a circle about 18 inches dianeter; the upper part is damaged, but there is still left the lower part of a human figure, sitting on a chair, with the feet resting on a footstool,-the one ankle resting over the other: the left hand resting on the thigh. No costume is visiblc. Plate 1 gives a sketch of the painting, with enlarged details of the chair. The legs of the chair are so like those of Charpoys, to be seen in India at the present day, that we may suppose they have been turned on a lathe. The perpendicular bars are made in imitation of the "Buddhist Railing." There are chairs and sofas represented in the Amaravati Sculptures; these are no doubt thrones, as royal or important personages sit on them; but even now Rajahs do not sit on chairs, the throne is a Gadi, or pad. This implies a very curious change in India since the Buddhist period. Chairs or seats are not unknown in India,-late European influences are
outside of the point here, -but it might be stated that alnost the whole population of India are without such articles of furniture. It would be important if some one could explain the influences which have produced snch a change.

If all the Caves in Afghanistan were painted, and the chances are that they were, we may be certain that a vast mass of valuable knowledge has been destroyed with them. These small Caves were the only places in which I saw any fragments of painting. Vestiges of colour were visible on some of the Topes, and on the seulptures upon then ; a figure which came to light at the Ahin Posh Tope had evidently been painted yellow. The late Sir Viucent Eyre has mentioned to me that he saw paintings at Bamian, and I think Lady Sale also alludes to them, and says something about her daughter and herself having tried to copy some of them. This implies that the subjects had some importance thus to attract the ladies to make copies.

One day a man came in from Hada and told the late Sir L. N. Caragnari that he knew a Cave that was much larger than that of the Hoda Rajah's Palace. At his request I went out to Hada with the man, and the result shows how little one ought to trust to people living on the spot about matters of this kind. In plute 2 a plan of this Cave is given, mainly to show the form of one of the exceptional Caves, but it will be seen that it is much smaller than the one the man compared it with. Its length in one direction is 50 feet. The sides and roof were in a tumble-down condition. There were some remains of plaster on the circular roof.

## Art. XXI*.-The Identification of the Sculptured Tope at Sanchi. By William Simpson.

The Seulptured Tope in plate xxviii. fig. i. of Tree and Serpent Worship suggested, from its height, to Mr. Fergusson, that it was formed after the Afghanistan models. He also hinted the possibility of the figures, who are performing pijak round it, being a raee from the North, and perhaps from the Kábul Valley. The Rev. Mr. Beal has just added some most interesting evidenees whieh tend to eonfirm the original suggestion. As the point is of great importance in many ways, the following additional evidence may be worth giving:In the early part of 1879, when General Sir Samuel Browne's eolumn was at Jelalabad, Mr. Jenkyns, who afterwards lost his life in the massaere at Kábul, somehow picked up a man from Kaffiristan. He had been born a Kaffir, but had been eaught by the Mahomedans, and eonverted, - sueh persons are ealled "Nimchas." He lived somewhere elose to the borders of Kaffiristan, and Mr. Jenkyns commissioned him to return to his own district and bring back a eouple of pure uneonverted Kaffirs. Mr. Jenkyns' objeet in this was to study their language, and learn as much as he eould as to their eustoms and other matters. The man promised to do this, and he was to bring them to Peshawer, or wherever Mr. Jenkyns was quartered. I went by appointment to make a sketch of this man, and I notieed that he did not leave his shoes on the outside of the tent-door; he doubled his legs under him, but after a little I noticed that his shocs were picces of leather tied about his feet, and bound by thongs round the ankles. This explains why the "jooti dustoor" does not exist in Kaffiristan. Colonel Tunner, who was then on the Survey Department, caught some Chugunis, who belonged to the Northern slopes of the Ram Koond; this tribe is Mahomedan, but their district is not far from Kafliristan.



I have a sketch of one of them, and the thongs of his leather shoes are also wound round his legs above the ankle. This arrangement is very similar to what is represented in the Senlpture at Sanchi. If we assume that this mode of tying the shoes is a continuation of the old method which has remained in the regions about Kaffiristan, it forms a strong confirmation of Mr. Fergusson's original theory. That old types do remain in this ont-of-the-way region we have eridence in the peculiar dagger which the Nimeha as well as the Chugunis carried; this was identical with one fomnd on a piece of Buddhist sculpture discovered at IIada,-the Hidda, or Hilo, of Hiouen-Thsang. It is quite distinct in its form from the Charra or knife of the modern Afghan.

The evidence that wearing bandages round the legs was a common eustom of the Northern Himalayas does not end herc. When in Kashmír, I made sketches of two musieians belonging to the Maharaja's Balti-kc-pultan, and they are eross-gartered from the aukles to the knees in blue and yellow, in a style whieh Malvolio would have delighted in.
I have still another illustration to give of wearing bandages round the legs in the trans-Indus region. In making my preparations for following the operations in the late Afghan War, I did what I found others doing, and I bought for myself, as well as for each of my servants, long stripes of woollen eloth, "putties" I think they were called; these were wound round the legs from the ankle to the knee. I understood it was an Afghan custom, for the eold weather. This peculiar kind of legging will be seen in some of my sketches sent to the Illustrated London Nerts at the time. As such artieles of eostume were unknown to the plains of IIindostan at any period, they form a strong probability in farour of the figures in the Sanchi Sculpture being men from a Northern and a cold climate. All these examples of leggings apply also to the Yavana warrior, sculptured in the Rani Ka Nur eave at Katak.

It may be worth mentioning here that the Russian soldiers wear, as a substitute for stockings, a pieee of cloth wound round the feet and ankles. I speak of this from dead bodies

I saw on the battle-field of Inkerman, where not one of them had stockings under their boots. As the Russians are closely connected with the Turanians of Central Asia, it is possible we have here a hint as to the ethnic origin of this custom.

Most of the figures in the Sanchi Sculpture wear a fillet round their heads, with the ends hanging down behind. An inspection of the old coins found in Afghanistan will show that this was another peculiarity of that region in the Buddhist period. The Sanchi figures have a cloak, fixed on the breast, and thrown over the shoulders, and hanging down behind, leaving the arms clear. A costume of this kind, worn in the same fashion, is a marked feature of the figures on the Indo-Scythian coins. Bandages on the legs are also indicated on some of these coins.

In the left-hand corner of the Sanchi Sculpture there are two men blowing horns of a long ogee form. These horns terminate like a drooping flower, but they are more probably intended for serpents' heads. Instruments of the same ogee form, but without the peculiar termination, are yet to be found in the region of the Northern Himalaya. I have sketches of these horns made at Chini, on the Sutlej, where I saw them used at the pujahs in that village. The performers held them aloft exactly as represented in the Sanchi Sculpture. Simple pipes or whistles, cut with a knife, such as those on these sculptures, are also common among the shepherds of the Himalaya, - I speak of the region of the Sutlej, where I have often heard their notes echoing through the valleys. A faint recollection clings to my mind that I one day saw a man playing on two pipes as represented at Sanchi, -I have no sketch, and it is so long ago, I do not feel justified in giving this as evidence to be relied on.

The illustration accompanying this is from a sketch of one of Col. Tanner's Chuginis, and it is only given to illustrate the thongs round the legs; the other parts of the costume are not remarkable,- the headdress being the loongi worn by all Afghans.










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Art. XXII.—On the Genealogy of Modern Numerals. By Sir E. Clive Bayley, K.C.S.I., C.I.E.

Nearly fifty years have elapsed since James Prinsep first announeed his discovery of aneient Indian Numerals, and attempted their deeipherment. Towards this latter objeet grudual advance has been made from time to time, and now, thanks to the successive labours of Thomas, Cunningham, Bhao Dáji, Bühler, Bhagwán Lál and others, it is possible to give to each symbol used its proper meaning.

Nevertheless, there is still much left to settle, and as regards the history of these signs there is yet great uneertainty. It is known that while in European parlance our modern numerals have been termed "Arabic," yet that they differ in several important points from those used in Arabic writing ; moreover, Arab writers emphatieally deelare these last to be an Indian invention. Still, the ehain of descent of either form from an Indian souree has never been satisfaetorily elucidated. And while no doubt the modern system of using, for all purposes of notation and ealculation, nine unit figures and a zero, arranged in decimal order, is apparently indigenous in India, it has not yet been distinctly shown how this simplified form was eliminated from the complicated system of notation whieh was in aneient times used in India. This last, as we now are aware, employed (with many variations of form) no less than twenty signs, eapable, in some cases, of being differentiated by eertain methods so as to signify higher powers of the original. This ancient system moreover employed no zero.

Mueh has indeed been written on these points, so mueh indeed that any undertaking to collect, examine, and analyze all the literature of the subject, would be far beyond the compass of a paper like the present.

All that will be now attempted is to give the leading facts already established and accepted. It is not proposed to add much which is really new; but it is hoped, by a fresh arrangement and collocation of data, to suggest solutions of each separate problem of at least a plausible character.

It will of course not be possible to attempt this except in the shape of a sketch; but, as far as may be, the authorities used will be indicated, so that readers who desire to consider the matter more fully, will be able to test the information tendered, and the arguments employed, more completely than can well be done in a brief momoir.

The whole case naturally divides itself into three parts, viz.
(1) The origin of the ancient Indian system of numerals.
(2) The simplification of this system, by the rejection of all the signs except those for the nine units, and by the invention of the zero.
(3) The propagation of this latter system, and of the varying forms of the numeral signs, both in the East and West.

It will be convenient to discuss these three divisions of the subject in their chronological order, and to divide this paper accordingly into three separate parts.

## Part I.-Origin of the Ancient Indian System of Numeration.

The earliest ${ }^{1}$ inscriptions hitherto discovered in India are those at Náná Ghát, ${ }^{2}$ in the Bombay Presidency, which have been ascribed to the carly part of the third century b.c., and which are supposed to be memorials of the carly Andhra dynasty of Southern India, and of their contemporarics. In these inscriptions are found systems of alphabetical writing

[^110]and of notation by non-alphabetie signs, both singularly perfeet and complete.

But though the alphabetieal and numerieal systems of India thus first appear together, and in a complete form, on the historical horizon, it by no means follows that they are of identical, or even of contemporaneous origin; and as the subject of the present paper is the system of notation only, questions coneerning the alphabet will only be notieed when it may be necessary to do so ineidentally, in order to illustrate the main question. ${ }^{1}$

Plate I. attaehed to this paper gires a table of the early Indian numerals, and of the principal modifications which they underwent from their first appearance till the adoption of the simplified mode of notation with a zero, or down to about 650 A.D., that is to say, over a period of nearly a thousand years. ${ }^{2}$

It is of course natural that the eurious phenomenon of a perfeet alphabet, and of a very good system at least, of notation, being thus found together at a very early period, for the first time, without any palpable evidence of previous local development, should give rise to much speculation. It has been

[^111]aecordingly suggested that they were introduced together, "ready made," by the Brahmanic-Aryan races who overran Upper and Central India before the historie period. Not only, however, is there a total want of evidenee in support of this hypothesis, but it is inconsistent with many uneontested faets; it leaves unexplained, the apparent disuse of the systems for a period of nearly a thousand years at least whieh this theory involves, and the reason why this alphabet was not used by other branehes of the same race, who certainly adopted from external sources various alphabets peculiar to the localities in whieh they settled; as they would naturally do if they had none of their own, but hardly so, if the case were otherwise. Other writers have suggested that the system was originated in India itself either by the Aryan invaders or by the races whom they found settled there; but this hypothesis involves a long, independent proeess of development, of which no evidence of a trustworthy character exists, and indeed the separate and independent invention of sueh an elaborate system is against all probability and experience. A third hypothesis supposes that both the alphabet and the numeral signs were brought into India from a foreign souree, and many points of resemblance have accordingly from time to time been noted between the Indian, and other alphabets and numeral systems.

Dr. Bühler-now Sanskrit Professor at Vienna, who has during his long residenee in Bombay given mueh attention to the subject-has come to the conelusion that the alphabet, in its original shape, may have been introduced into India from a foreign source, and subsequently adapted by gradual alterations to Indian purposes; but that the numeral signs are, at least in their later forms, nothing else but the alphabetieal expressions of eertain syllables termed "aksharas," which possess in Sanskrit fixed numerieal powers. This view, originated by l'andit Bhagwán Lál, has been elaborated by Professor Bühler in his official leetures at Vienna, and he has been good enough to furnish me with a memorandum giving the substanee of the arguments he has employed, and this will now be given in extenso.

In doing this, however, it will bo observed that the hypothesis thus put forward necessitates to some extent an explanation of Dr. Büller's riews on the origin of the alphabet also. ${ }^{1}$

Memorandum by Professor G. Bühler, Ph.D., C.I.E.
"The Southern Indian Alphabet, the oldest form of which we possess in the Maurya and Andhra (Nânaghât and Nasik Karli and Amarâratî inseriptions), no doubt comes before us as a fully developed system about 300 b.c., and is accompanied both in certain Maurya and in certain Andhra inseriptions, by an equally developed system of numeral figures, which are elearly syllables.
"As fir as I can see, there can be no donbt that this alphabet was an old institution in India about 300 b.c., and that it owed its development to the grammatical schools of the Brahmans.
" The arguments proving its great age are-
" 1 . The enormous extent of territory over which it occurs, from Kathiârâd to Orissa and the Eastern Coast, and from the Himâlayas dorn to the Salhyâdris.
" 2 . The fact that it must lave been generally known among the higher classes (and even the lower classes) of this enormous territory ; as is shown-
" (a) By the circumstance that Asoka could hope to improve the morals of his subjects by official placards,
" (b) By the exquisite execution of the inscriptions, which excels (e.g. on the Dehli and Allahabad pillars) all the best work of the Roman and Greek stonemasons,
" (c) By the fact that the stonemasons, a low caste in India, used (as Cunningham has lately discovered) the letters (e.g. at Buddha Gaya) to mark the pillars, and that the order in which they gave the letters reveals the existence of a Bârâ Khadii, or table of the alphabet, which closely resembles that still in use in our indigenous schools, and proses that the

[^112]system of instruction now followed was already elaborated 2000 years ago.
"3. The fact that both the Maurya and the Andhra alphabets are sister-alphabets derived from a common source. It is wrong to say that the Andhra is derived from the Maurya alphabet; a comparison of the two alphabets, for example, in Burgess's tables, shows the contrary.
"Take the $d a$ and dlha; in the Maurya alphabet we have

"There cannot be any doubt that the $d h a$ was developed from $d a$ by the addition of a little hook or curve added at the right of the $d a$, just as in $d c h a$ and $b c h h a, \cup p a$ and $\zeta p h a$. Now it is utterly impossible to derive the $\sigma$ of the Maurya alphabet from the $\downarrow$, but its connection with the Andhra $\mathcal{L}$ is very clear. Hence, I say, it is probable that the latter sign is the older one, and that the Maurya $\downarrow$ is not the parent of the Andhra sign. It may either be itself a development of the Andhra sign (by a change of the curves into angles), or an older alphabet may have had both the angular and curved signs. But, however that may be, the South Vindhyan Pali alphabet is not a daughter of the North Vindhyan alphabet. The bearing of this point on the age of the South Vindhyan alphabet is clear.
"4. The fact that the Brahmanical grammarians have developed the Maurya and Andhra alphabets, and brought them into the shape in which we first find them. This point is proved by the following circumstances:-
" (a) Nobody but a native grammarian (who, indced, wanted the distinctions for his school lore) would have invented five or six scparate signs to indicate various shades of the masal sounds. We have in the Maurya inscriptions $\perp, \mathcal{I}, 7, \cup$, as a numeral $G$, and the same signs occur again in the Andhra inscriptions. There is a clear tendency to have separate signs for the nasal of each of the five 'Vargas,' or classes of the consonants as arranged by the grammarians: gutturals, palatals, linguals, dentals; and there is besides the -, which is used both as a conjunct nasal for all classes and the curious
nasal $g$ sound at the end of words, which corresponds to the French final $n$.
"Now there is no other alphabet in the world which has developed such a number of signs for nasals; most alphabets lave only two ; some, like the Greek, thrce. If the Indian alplabet is derived from a Semitic source, these nasals nust be mostly an Indian invention. It is also quite clear from the forms, that thrce at last are only differentiations of one fundamental form. Nobody has ever doubted that the $I$ is derived from the $\perp$; it seems to be also highly probable that the $h$ gocs back to the same type, for there is another rare form of the $\perp$ in the Andhra inseriptions $L$, looking very much like the Maurya $u \mathrm{~L}$. The $h$ arose out of this by the introduction below of two bands $L_{1}$, and the addition of the top horizontal stroke, or we might also say that the $h$ was derived from the $I$ in its Andhra form, viz. $Z$, by prolonging vertically the two ends of the lower horizontal line.
"Now who would have fallen on such a cumbrous system of nasals (which by the way in the Prakrit inscriptions serves no uscful purpose because at least $\perp$ and $I$ are used promiscuously)? Certainly not a merchant, for a merchant would only care for brevity, not for phonetic accuracy, and as a matter of fact the merchants in their books never used all the signs of the alphabet, and certainly no vowel signs, till compelled to do so by the English Courts. Again no Prakrit-speaking official or writer would dream of distinguishing between $\perp$ and $I$, because to him the two letters were interchangeable and meant the same thing, nt or $n a$, according to the country to which he belonged, or according to the dialect which he spoke. But all these forms would be necessary to a Brahmanical grammarian who had in his fine polished school-language carefully to distinguish between $n g, \tilde{n}, n, n, m$, the anusvâra ${ }^{\circ}$ and the anunâsikir $l$, and who according to his belief gained heaven, or went to another place-as he pronounced his sacred texts rightly, or wrongly.
"Hence I say the differentiation of the nasals shows the influence of the Brahmanical grammatical schools.
"(b) The same inference may be drawn from the existence of the three sibilants $\lambda, \pi$, and $\mathcal{E}$ (Khalsi and Pantaleon's coin), all three go back to one original form, which consists of two little semi-circles, and differ only in the arrangement of thesc elements. Now Semitic alphabets have two sibilants: whose interest was it to have three? Of course it was necessary for the Sanskrit grammarians and for nobody else. In Prakrit only two sibilants exist, and they are used very promiscuously, according to dialects. A merchant would not be such a fool as to burden himself with such uselcss ballast.
" (c) A similar inference may be drawn from the careful system of short and long vowels.
" (d) Likewise from the invention of the la $\zeta_{c}$, which is peculiar to the Andhra inscription, because the sound occurs only south of the Vindhya range.
"But if it be granted that the Maurya and Andhra alphabets have been developed by Brahmans, dues not that show that they must have been long in use before the time when we first find them?
"This inference as to a very early cultivation of the art of writing in India, at a time indeed much anterior to 300 в.c., is strengthened by the considcration of the Northern (Bactro-Arian) alphabet, which was clearly worked up by the samc class of people who fashioned the southern system of characters. Take, for example, the system of vowel notation, and the system of compound letters, which follow exactly the same principles as those of the Southern alphabet.
"As regards the Indian numerals, my views are as follows:
"I. The Indian numerals, consisting of separate signs for the units, the tens, the hundreds and the thousands, are all syllables, which were pronounced as such, not signs for which the numerals were pronounced.
"The reading of these syllables has in general been given correctly by Bhagvânlâl, except for the signs,$-=, \equiv \uparrow$; the former threc must be read $u, \hat{u}$, and $\hat{u}-u$, and the last mu (Flect's discovery). As regards the reading of $\varphi, \eta(3), 七$ (L5), it is doubtful as yet whether the pronunciation was phue, $g u$, hu, or plira, gra, hra. I now incline to the latter view
(though I cannot find any distinct proof of it), because the $u$ eertainly appears in the hundreds. The proofs are:
" (1) The most certain evidence for the ancient times is furnished by the Rupnâth and Sahasrâm Jdicts. In the former 200 is clearly $\underset{1}{d}$, while in the latter $Y$ is used. It is impossible to see in the first sign anything elsc but the syllable $s \hat{u}$ (not $s u$ ), as the elongation of the right-hand stroke of the $s$ shows that something else than the simple $s u$ is intended, and the natural explanation is that the second $u$ sign, which makes the vowel long, has been attached at the top instead of below, ${\underset{y}{l}}^{4}$ instead of $\underset{\sim}{\text {. }}$. A similar plan for the expression of long $\hat{u}$ is adopted in Dr. Burgess's new inscriptions of Purushadatta from the Stupa at Jagayyapetted. There t $\hat{u}$ is several times written $ょ$ and the stroke indicating the length of the vowel attached to the top of the $t$. The cause of this proceeding, as well as the uncouth appearance of the $s$ in $Y$ (Sahasrâm), is the desire to distinguish by the form of the syllables, the cases where they have numeral values, from those where they have merely an etymological value as parts of numerals.
"(2) The second proof is the fact that sereral syllables change their shapes according to the change of the letters in the various alphabets (Bhagrânlâl), always with this proviso, that mostly some slight difference is allowed to remain between the form of the syllables as numerals, and those used as parts of words. The change shows that the people pronounced the syllables as syllables, and the differences which frequently occur are due to the reason above giren.
"(3) The third proof is that a few signs show such variation as can be explained by phonetic changes, which in the language, too, are of very frequent occurrence. The clearest ease is that of the syllable for 100 . In the Asóka edicts we have su, and the same occurs in the Andhra, and a great many other inscriptions; but the Western Kshatrapas and others use $\sim$, which is clearly śs guages there occurs a wonderful confusion of the sibilants, and in ancient times $s a$ and śa are in Prakrit equivalents. The one
occurs eonstantly for the other. If we therefore find $\underset{\sim}{c}$ and $M$ in the numerals for 100 , the conclusion is that the people were in that case as careless as in others, and pronounced indiscriminately $s u$ and śu, because they were accustomed to do this in common life. The same was probably the case for the numeral syllable for five, where side by side with forms which clearly are $m u$, others occur which must be read ṇo (एो, Bhagrânlâl's tables).
"(4) Fourthly, there are other cases where certain sects, or the Pandits of certain countries, have misread the ancient signs, and have substituted wrong syllables for them. The best cases are: (a) that of the numeral syllable for 10 , which in the oldest forms is $l a \varepsilon_{c}$ in the south, and $d a^{1} \checkmark$ in the north. This has been rendered by लू and लू (lri and l $l \hat{u}$ ).
" (b) That of the numeral syllable for 100 . The Nepalese have misread (as has sometimes been done by modern epigraphists also) the $\mathcal{H}=s u$, as $Y=a$.
"In these cases the important point, which shows that the people pronounced syllables, and not the numerals when reading the signs, is that they always made a new syllable of the old sign, not a mere uniutelligible symbol. Had they pronounced sata for સ, they would have left it, and not have written a clear $y$ for it.
" (5) The fifth argument is that down to the present day the numeral syllables are ealled aksharapalli, viz. 'letter table,' by the Jainas, and are known to represent syllables. Mallinâtha (circa 1150 A.D.) speaks distinctly of such a syllable as a sabda 'a word.'
"II. The system of numeral syllables as we find it in the oldest inscriptions was settled by the Brahmanical sehools. The proof of this assertion lies in the use of the signs $Z_{c}(l a)!\tilde{n}, \theta(p) p h, \oplus(a) k / h$, whieh occur in Brahmanical books, and speak alone. Nobody but a Brahman eould have dreamt of making the Anunâsika $\cup$, the Jihrâmûlîya $\oplus$, and Upadhmanîya $\theta$ serve for numerals. The circumstance that the three strokes $-, \equiv, \equiv$ are intended for $u, \hat{u}, \hat{u}-u$ (hrasua,

[^113]dirgha, pluta) points to the grammatical schools being the originators of the system. 'The proof for the asscrtion that the strokes too have a vowel valuc lies in the manner in which they are used with the huudreds and thousands100 being expressed by 7 (śu), 200 T , and 300 F ; 1000 by $q$ (dhut), 2000 by 9 , and 3000 by $\mp$. If the strokes had a mere numerical value, the marking would be wrong and unintelligible. We should then require for 200 m , and for 300 M. If we pronounce śu, síu, síu-u, the difficulty disappears. Hence, I conclude that wherever we find the strokes,$-=\equiv$, these, too, are intended as symbols for a vowel, and for the vowel $u$, bccausc in all grammars the nowel $u$ is used to illustrate the three stages, short, long and treble (phuta). Pâṇini's sûtra is ' $u, \hat{u}, \hat{u}-u$-hrasvadîrghaplutàh,' i.e. 'vowels having the duratiou of $u, \hat{u}, \hat{u}-u$ are called long, short and pluta.' The origin and meaning of these marks seems to lare been forgotten very early, and in the Bauddha and Jaina books, ela, dei, tri, or sia, sti, śri, om, na, mo (the latter being the usual initial three syllables of books), are substituted.
"III. Though I claim for the Brahmans the oldest form of the Aksharapalli, ${ }^{1}$ I do not claim for them its incention. We constantly find in India that something foreign imported into the country is made to assume native Indian forms, and discuised so cleverly that one would swear it was a native invention. As I believe that the Indian alphabets are foreign inventions introduced into India long before the historical times, I think it probable that the numerical system came too from a foreign country. I believe the Southern Indian alphabet came to India from Arabia or from the Persian Gulf, riâ Suppârà (Sopheir) or Broach, and that the Southern Indian numerals came by the same road. But I think that, in spite of the resemblances pointed out by Deecke ${ }^{2}$ between the Himyaritic and Maurya letters, we

[^114]have not yet found the alphabet from which the Southern Indian characters are derived. I think that there is much less chance of making out anything about the numerals, and of saying from what other system they are immediately descended. But it is not at all clear that originally they may not have come from Egypt, but probably through some Arabian traders either from the Arabian Coast or from the Gulf."

It now remains to set out the theory which it is proposed to maintain and illustrate in the following remarks; and it may be said, once for all, that for this purpose it is not necessary to deal with that part of Dr. Bühler's memorandum which treats purely of the origin and growth of the alphabetical signs. ${ }^{1}$

Briefly this theory is, that the Indian numeral system was, if not wholly, at least mainly, of extraneous origin ; but that it was not adopted all from the same source, or at the same time.

In short, it will be attempted to show that it was, so to speak, of an eclectic character; that it began by the adoption of a primitive and imperfect system-probably from the early Phœnicians; and that it was subsequently improved by successive adoptions at various times, and from different sources

[^115](Baetrian, Egyptian, and possibly Cunciform), of additional signs, until the whole grow up into a convenient, complete, and almost perfeet form.

This theory of course implies a very considerable degree of intereourse between India and the mations from whom the signs are supposed to have been borrowed; and it will be endearoured to show that sueh an intereourse aetually did exist for eommereial purposes.

This theory, it will be seen, is in fact little else than an amplifieation of the third hypothesis explained above, and is also in no respect contradietory to that advanced by Dr. Bühler ; for it leaves entire room for the influenee of the "aksharas" in the gradual modifieation of the numeral forms; in faet, as will be seen hereafter, the theory now advaneed attaches cren greater importanee to the existence of the "aksharas" as a faetor in the growth of the general seience of enumeration, than is assigned to it by Dr. Bühler. ${ }^{1}$

On one point, however, Dr. Bühler's memorandum requires a few words of explanation. He appears to have understood me as intending to suggest that the Indians were induced to borrow the numeral signs for the purposes of commerce. Such a suggestion, however, forms no part of the theory to be here maiutained. In faet, it is almost certain, from their cumbrous character, that these early signs were not employed for purposes of calculation or account. Such an use of them probably did not spring up at least until the simplifieation of the system, and the employment of the nine units alone for purposes of numeration.

On the other hand, that the early Indians did adopt their numeral signs from foreign mations, and that they aequired their knowledge of these nations, and of all the incidents of foreign eivilization-ineluding the use of numeral signsfrom an intereourse whieh was purely commereial in its

[^116]initiation and object, is not only part of, but the basis of the hypothesis on which this paper is founded.

It will perhaps make the theory thus put forward more clear, if the circumstances which suggested it be briefly stated.

An examination of the principle of the ancient Indian mode of differentiating the signs for the 'hundred ' and 'thousand,' so as to make them express higher powers of those numbers, was suggested by an inquiry which will be mentioned further on. ${ }^{1}$

For the purpose of this inquiry, it became necessary to examine the ancient Egyptian numerals, to which attention had been drawn, as affording some points of resemblance to the ancient Indian numerals, by Barth, Burnell, Rodet, and other writers.

That system was found, as will be shown immediately, to present not only an identical system of differentiation, but to afford a complete explanation of the causes which produced it, which causes did not exist in the Indian system. It became palpable therefore that it was borrowed by the Indians from the Egyptians. Further inquiry, however, as to other resemblances between the Indian and the Egyptian numerals, whether these last were hieratic or hieroglyphic, showed that such resemblances could be readily detected in three instances only-viz. in the earlier symbol for a 'thousand,' which appeared to be taken from the Egyptian hieratic, and in the latest symbols for a 'hundred' and a 'thousand,' which were both clearly referable to hieroglyphic origins.

The evidence of borrowing, however, thus obtained, invited inquiries in other directions. General Cunningham long since indicated the Bactrian alphabet as the original source of the unit numerals from ' 4 ' to ' 9 ,' and a comparison of these last in their oldest form, as given on the Nánághát inscription, with the lapidary (not numismatic) forms of Bactrian writing of almost contemporaneous date, found in the Shábázgiri edicts of Asúka, fully confirmed this conjec-
ture. ${ }^{1}$ But it was not possible to carry the identification beyond these unit signs. In proceeding, however, to examine the Bactrian numerals, as explained by Professor Dowson [J.R.A.S. Yol. XX. o.s. for 1863, p. 228], it became apparent that the second (rather rare) cruciform shape of the Indian 'four' was identical with the 'four' of the Bactrian numeral system, and, moreover, that one of each of the signs for ' 20 ' and for ' 100 ' in the second oldest stage of the Indian system were only slightly disguised forms of the Bactrian signs for those numbers.

After this result there remained unidentified only the forms for 'ten,' and one other (the earliest) form of 'twenty,' the (earliest) sign for a 'hundred,' and the signs for the higher powers of 'ten' (except that for 'twenty;' which has been already dealt with above). The signs for 1,2 , and 3 , were of course common to every ancient (non-alphabetical) system of numerals. Induced, however, by the analogy of the Bactrian numeral system to that of the Palmyrene Phœnician, an examination of the various Phœnician systems was next begm, and among the remaining groups of Nánághát numerals, it was found possible to identify a complete series of archaic non-alphabetical Phonician signs for the numerals of higher denomination than units, $v i z$. the ten, the twenty, and the hundred; the first no doubt in an altered shape, but the hundred only slightly, and the twenty not at all disguised.

The figures for $30,40,50,60,70,80$, and 90 thus remained alone without any discoverable archetypes; and this partly because, except for the ' 60 ' and ' 80 ,' no examples can be found in the Nánághát inscriptions; indeed (except the 50 , which occurs in the Asóka inscriptions) no other examples sare those of a comparatively late date exist. Some conjectural remarks, however, on their possible derivation and mode of formation will be given later on.

[^117]In Plate II. Figs. 1, 2, 3, and 4, will be found tables showing the figures attributed to each of the sources thus assigned, arranged according to the supposed order of time in which the originals were severally laid under contribution, and the alterations (if any) to which they were subjected in the process of adoption.

In Fig. 1 are given the numerals attributed to the archaic Phœenician, ${ }^{1}$ which, by reason of its simpler form, its greater antiquity, and possible relation to the original source of the Indian alphabet, it is proposed to consider the earliest iu date.

It will be seen that the signs for one, two, and three, are in the Indian system drawn horizontally. This probably may be, as Dr. Bühler suggests, the result of Brahmanical influence in order to bring them into correspondence (when used for differentiation) with the written expression (in contposition) of the powers of the vowel $u$; still in Egypt these signs were sometimes written horizontally also, and their adoption in this form may have been at first a mere matter of convenience in writing.

The earlier units were probably all expressed, as in the older non-alphabetical Phœnician, ${ }^{2}$ and in the hieroglyphic, ${ }^{3}$ by groups of simple lines, till this method was, ere long, superseded by methods borrowed from the Bactrians.

The ten of the early Indian system, it will be observed, secms to be altered from one of two archaic Phœnician forms (or a compound of both), turned, however, from left to right, instead of from right to left, to suit the Indian mode of writing.

In the oldest shape (that found at Náná Ghát), the Indian sign for ten thus derived scems to express the syllable thú, as it would appear, written in Indian characters of that date, which may possibly be an akshara (though not that used later on) for ten; but this also may be a mere accident, for the ordinary alishara for ten does not seem to be thú.

[^118]The ticenty of the Phœmieian, a simple cirele, remains unaltered in its Náná Ghát shape. The Phomician figure for a hundred is but very slightly changed in the Náná Ghát shape, and even still less so in that employed by $\Lambda$ soka for his inseriptions in Eastern India (where probably, as will be explained presently, more arehaic types in general prevailed), though it is there differentiated in order to make it represent two hundred.

It seems probable that the Baetrian muneral system was that next laid under eontribution; for it is hardly likely that the Bactrian mumeral four should have been separately taken after the Bactrian alphabet had supplied, as will be seen, a full series of signs for the units above three. The loans from Baetrian munerals are therefore shown in Pl. II. (both in their original shape, and as reversed to suit Indian writing) Fig. 2. Nothing further need be remarked in regard to the identity of the figure for four ;-as has been said, the use of this four in Indian numerals is rare-but it is found under more than one modification on the silver coins of the Guptas. It gave rise certainly to one of the two signs for forty, and, as will be shown in the sequel, eventually prevailed as the model for all the modern Indian and European types of four:

The terenty of the Bactrian system (a double ten) will, if uritten reversed to suit the Indian writing, and with top and bottom joined by a curved "rounding" stroke, give the exact form of the "Cave" variety of the Indian "twenty," which, slightly modified, was employed almost exclusively ${ }^{1}$ on all later eoins and inseriptions.

The hundred of the Bactrian system, if also reversed, requires but little alteration to convert it into the likeness of the Indian "S," in whieh shape it occurs on Asóka's Western (dated) Inseription, and to which form it was doubtless adapted under Brahman influence, in order to fit it to the alphabetical expression of the "akshara" "su," which denotes a hundred. ${ }^{2}$

[^119]To pass to Fig. 3, Pl. II., it may be taken as likely, for the reason already assigned, that the adoption of certain signs from the Bactrian alphabet was of later date than the borrowing from the Bactrian numerals. It was probably, on the other hand, anterior to the borrowings from the Egyptian systems, for some of these latter were certainly of very late date, later it will be demonstrated than that of the Nánághát, or even of the Maurya inscriptions; and the use made of these Bactrian signs to improve on the Egyptian system of differentiation, scems to imply some familiarity with their use at a comparatively early period, and before the mode of differentiation was obtained from Egypt.

It is necessary, however, to explain Fig. 3 more fully, and it can only be said that the proof of borrowing consists solely in the almost absolute identity of the numerals, with the older lapidary Bactrian forms of certain letters. It will be seen that the $4=$ the Bactrian letter $c h h$ ( $n o t c h$ ), the $5=p$, the $6=g$, the $7=a$, the $8=b$, the $9=h$.

Now, so far as it has been possible to trace the mattcr, it may at oncc be said that the numeral force thus assigned to the several letters cannot be explained by any known system of alphabetical numeral notation, Aryan, Semitic, or Turanian. Nor do the letters appear to give the initials of the names of all or cven most of the units they represent, in any known language. ${ }^{1}$

This fact, however, is not in itself sufficient to overthrow the evidence derived from the absolute identity of the two sets of forms. Onc system of notation by letters, well known, and certainly of very considerable antiquity, the Arabic abjad, appears to be equally arbitrary in its assignment of numerical powers to letters.

Still there doubtless was some reason for the adoption of this system of notation, and for its adoption as an integral system, for it will be observed that it overlaps the older system supposed to be already in vogue in India, and gives a second and alternative form for ' 4 .'

[^120]To confess the truth plainly however, it is only possible with the present total want of evidence on the point to conjecture this reason, or chain of reasons. A medieval writer, Radulphus, Bishop of Laon, who died in 1131 A.D., declared that the Greeks obtained the peculiar names for the units, used by the Neo-P'ythagorean school, with the abacus, from Chaldrea. It will be shown presently that this assertion is in a great measure corroborated by facts; and from analogy there seems no great improbability in guessing that the Indians obtained not the names, but the signs for the "abacus," together with that instrument. For it has been already pointed out that the signs for the units only, which alone would be used with the "abacus," appear to be taken from the Bactrian alphabet, and that there seems to have bcen no further borrowing from that source. If this conjecture be correct, it would show, what is not antecedently impossible, that the knowledge of the "abacus" was obtained by the Indians through Bactria. ${ }^{1}$

But if even this hypothesis be granted, the question is only adranced one step towards solution; for why, it may be asked, came it to pass that the signs of the "abacus" were indicated by these particular letters? even in Bactria before their transfer to India?

Two guesses may perhaps be permissible; the letters may perhaps represent the initials of some lost system of unit "aksharas," and perhaps, if this be so, this explanation might cover also the origin of the "abjad" system. For, as will be explained a little further on, there seems reason to suspect that a system of "aksharas" or phonetic notation was very early and very widely employed. ${ }^{2}$

But it may be noted that two Arabic traditions assign to the "Abjad" system, a mnemonic formula as its origin, one declaring it to be expressed by a sentence which gave the

[^121]names of the first six kings of Midian, and the other by the names of the inventor of the Cufic alphabet and of his sons. ${ }^{1}$

Such an origin would, too, not have been at all incompatible with Indian usage, for, as will be shown, the 'aksharas' themsel ves were practically strung together in a metrical form, so as to give a sort of 'memoria technica.'

The subjoined conjectural solution of the point is therefore offered, though with diffidence, for it must be admitted that some of the suggestions made are not in exact accordance with the strict rules of orthography, at least of the Sanskivit branch of the Aryan tongue.

It will be observed that the fourth letter in the group is the initial letter $a$; manifestly if they be the initials of syllables, this letter must mark the beginning of a fresh word. Supplying the inherent vowels, this word would become abaha or abah. The accepted etymology of abacus, or at least that generally favoured, refers it to a Semitic word equivalent to the Hebrew (Ex. ix. 9, Is. v. 24, Ez. xxvi. 10) PבM abak, or ابق (which means ' very fine dust'). This word might well be written in dialects with the final letter T , corresponding to both the Arabic $\tau$ and $\tau$, and might therefore thus pass to $\dot{\tau}^{\prime}$ and $\tau^{\prime!}$ abakh and abah, by a very slight change, or abah might represent the name of the instrument, in a form derived from the word for 'dust.'

Admitting this, the preceding syllables must refer to some objects connected with the abucus. If they refer to the signs themselves, the expression would be in the plural number, and this plural would probably be denoted by a suffix ; the last letter, $g$, would then represent this suffix, and it naturally recalls the modern Persian plural form of gán, used where a word in the singular ends in a silent $h$; as bundah, bundagán, istádah, istádagán, zindah, zindagín, etc., etc.

[^122]If this be so, the remaining syllables would represent chhapah, or chlidipah, a word which comes very near, indeed, to the Hindi word chhuipá, which significs a 'sign,' 'stamp,' 'seal,' or 'mark.' It has also a technical meaning in connection with the 'Vaishnava'l creed, denoting the sectarial marks, such as the 'trideut,' 'lotus,' etc., which the devotees of Vishuu delineate on their bodies. Under the form of $\underset{\sim}{c}$, the same root seems to occur, and with a similar general force, in the modern Persian; that is to say, in the sense of 'stamp,' or ' mark.' It is very improbable, either that a word of foreign origin should be employed in the technical religious sense which it possesses among the Indian Vaishavas, or that the Persians should have borrowed the word from the modern Hindi. The alternative is to accept it as derived in both instances from some common Aryan source. It is true that the word chhipi has not been admitted by ctymologists as referable to any known Sanskrit root. The form in chh seems to indicate an original in $k$ ish, but the ncarest root in Sanskrit is kishi, from which chhipui does not come by any regular rule. It is possible, however, that in this latter form it may be only a corruption of some other, such as kishépa; and though that word does not occur in the same sense, one meaning of the root appears to be 'to smear,' or even 'to depress,' from which the modern meaning may hare come in a secondary form; or the word may be even derived from some lost Aryan root. If it be in any way referable to an Aryan origin, it would not be out of place in a Bactrian sentence. Nor is it perhaps too much to assume, that the modern Persian plural in gán is, perhaps, a relic of some (perhaps popular) form of an ancient plural suffix of the same character. If these conjectures be admissible, the sentence would of course stand as chhäpagán-(i)-clarh 'signs of the abacus.'

After all, howerer, this interpretation can only be offered as purels conjectural; the argument as to the Bactrian origin of the signs cannot rest upon it, but must be based solely on

[^123]the almost exact identity of their forms with those of the Bactrian letters.

Passing, however, from Fig. 3, Plate II., the borrowings from Egyptian sourecs (Fig. 4) remain for consideration.

Of these, by far the most important in every way is the system of differentiation. It might be imagined, if the ancient Indian system of numerals came from Phœenician sources, that the Indians would in the first place have adopted also the Phœnician mode of differentiation. This was what actually happened in the Bactrian system, which appears to have been taken from the quasi-Phonician Palnyrene. The Phœnicians using a certain symbol for a hundred, differentiated it with the unit representing its powers; thus for one hundred, they wrote the hundred symbol with a single stroke on the right hand (i.e. before it); in writing two hundred, they added a second stroke: exactly as in England we write $£ 1$ for one pound sterling, $£ 2$ for two pounds, or $\$ 4$ for four dollars, ete., ete.

But the actual Indian mode of differentiation as first found existing, is wholly and markedly distinet, and, as it oceurs in its Indian form, appears arbitrary and based on no prineiple. Thus, the simple symbol for a hundred (or a thousand) stands for one hundred (or one thousand); but when it is given with a single differentiating mark (to the right, that is, after the symbol), it stands for toro hundred; and with two such marks, for three hundred; that is, there is always one mark less than the power to be indicated. When, however, four hundred is reached, then the differentiating mark takes the form of the unit 'four,' and similarly in the ease of the remaining higher powers of a hundred below one thousand.

If we turn to the column showing the Egyptian hicratic forms in Fig. 4, Plate II., it will be seen that this is also the prineiple of that system, and that there its adoption is easily explained. In the original hicroglyphic signs, two hundred was denoted by a group of two of the symbols for a hundred, four hundred by a group of four, eight hundred by a group of eight symbols, etc., etc. The bieratic, however, which was
a speeies of 'shorthand' writing, after onee indieating the symbol for one hundred, did not repeat it at length in the ease of numbers abore one hundred, but merely placed afler it a square dot (or a line representing a group of dots) for eaeh symbol for a hundred whieh it omitted to write at full length. Thus, one dot was added for two hundred, two dots for three hundred, and so on. The number of dots being therefore, as in the Indian system, always exactly one less than the power of the hundred which it was desired to express. In the ease of the seren hundred and nine hundred, however, as the hieratic Egrptian possessed speeial symbols for the mits 'seven' and 'nine,' these were used to differentiate the hundred symbol (they had also a hieratie symbol for fire in oecasional use, but did not employ it to differentiate) instead of groups of dots, or strokes; exaetly on the same prineiple as that whieh governs the use in the Indian system of the unit signs above three for purposes of differentiation. The Indian system was therefore in prineiple altogether identieal with the hieratic Egyptian; but so far improved on its model, that having apparently already adopted from the Bactrian alphabet special symbols for each unit above three, they employed them to express not merely the seven hundred, and nine hundred, but all powers abore three hundred, instead of the short spur-like side strokes with which they replaced the Egyptian dots.

Now no two other known systems of numeration in the world possess this peculiar mode of differentiation, which, it must be admitted, is hardly one which in all its details is likely to have been twiee invented. The history of its growth is not to be traced in the Indian system-it is easily seen in the Egyptian, where its development ean be explained by natural eauses. Moreover, it was employed in Egypt at least in 1200 b.c., ${ }^{1}$ at a period far more ancient than any probable Indian use of numeruls.

There weed be therefore little hesitation in affirming that

[^124]the Indians adopted this system exactly in all its principles, as they found it already developed in the Egyptian hieratic, improving it, however, to the slight extent already mentioned, in a few of its details.

They effected another improvement, moreover, for they used this mode of differentiation both for the hundred and the thousand symbol. The Egyptians employed for the thousand another and clumsier mode, allied to the ancient Phœnician. This last adaptation may perhaps indicate that the Indians adopted their mode of differentiation when as yet they had no separate symbol for the thousand ; a supposition which is not indeed unlikely, for they had been hitherto borrowing only from systems belonging to the Phonician family, and, so far as is known, no Phonician system had any separate symbol for a thousand, which number they appear to have represented by a group of figures. ${ }^{1}$

The Indians, it may be observed, seem likewise to have borrowed all their signs for the thousand from the Egyptians; the earliest form being apparently merely the Egyptian hieratic symbol deprived of its side stroke; the later one a cursive form of the hieroglyphic 'lotus' symbol. The latest Indian symbol for the hundred also (which does not occur till after 225 в.c.) seems to be, in its original form, merely the hieroglyphic symbol for a 'hundred' partially straightened. ${ }^{2}$

The only numerical signs therefore, of the ancient Indian systern, to which no positive derivation can be assigned, are those for the powers of ten above twenty, viz. the 'thirty,' the ' forty,' the 'fifty,' the 'sixty,' the 'seventy,' the 'cighty,' and the 'ninety.' It seems, however, probable that these did

[^125]not eome from any single source. The forms of the double signs for 'forty' at any rate clearly indieate a derivation from the double signs for 'four,' and they were therefore probably invented in India, after the adoption of the latter. The sign for 'fifty,' is used either turned to tho left hand or the right indiseriminately, and it may be suggested on this aecount, that it was probably borrowed at a late stage, from some Semitie form of eursive writing, and that it was written sometimes in one direction with reference to its Semitie origin, sometimes in another, aeeording to the direetion of the Sanskrit writing. The Egyptian hieratic fifty might indeed possibly be the model of the early Indian fifty. There is also another hieratic form for thirty besides that which is shown on Plate I. (see Pihan, Signes de Numeration, p. 27). On my silver coin of Skanda Gupta, dated in the year $13 t$ of the Gupta era, the thirty is almost identieal with this Egyptian hieratie form for thirty. The lieratic was written always in Semitic fashion from right to left.

Again, there seems some probability that the signs for sixty and seventy are conneeted. The Cingalese numeral system, which preserves fuitlifully to the present day nearly all the prineiples of the old Indian system, forms the sign for seventy by the addition of the sign for ten to that for sixty. The ancient Indian form for seventy is evidently only that for sixty, with a spur-shaped stroke added to the right, whieh may perhaps give the power of an added ten. ${ }^{1}$ In eonnection with this faet may be remembered the Akkadian $Y{ }^{2}$ for 'sixty,' which is converted into $K\langle=70$ by the addition of $\langle=10$. So also the Assyrian $Y\langle=60$ beeomes $Y\left\langle\left\langle=70\right.\right.$ by the addition of the $\left\langle=10 .^{3}\right.$

The eighty also seems to have been converted into ninety by the addition of a similar augmenting stroke, and may,

[^126]perhaps, be borrowed from the same source as those for sixty and seventy. ${ }^{\text {l }}$

It is not practicable, however, with the information at present available, to do more than thus conjecture the process by which this last group of signs was obtained, or the principles on which they were formed. Indeed, as has been pointed out, except of the sixty and eighty, no examples exist in the Nánághát inscriptions, and those of Asoka only add that for fifty, and it is therefore impossible to be certain even of the exact shape of most of the oldest forms.

At any rate it would seem clear that the early Indians were unacquainted, when they adopted these signs for the powers of ten, with any alphabetical or other system, which would have furnished them with such signs ready made, as, for example, the Greek or Phœenician alphabetical systems, which possessed a complete series of symbols for the powers of ten. ${ }^{2}$

Fiuding themselves, however, with a perfect system of counting by separate symbols, from unity up to twenty, on the oue hand, and on the other with a similar set provided for the numbers between one hundred and twenty thousand, the Indians apparently set themselves to fill the intervening gap, and provided themselves with the missing signs, probably by a process of mixed borrowing and adaptation. ${ }^{3}$
${ }_{1}$ The Indian sign for eighty $(1$ might perhaps be taken from the Akkadian sign for sixty placed between two Akkadian signs for "ten," thus $\langle\boldsymbol{Y}\rangle$. Cf. the Assyrian hieratic numerals as given by Menant, New Assyrian Grammar (1882).
${ }^{2}$ It is a corollary of this conclusion that at the time when these indents were made on their alphabet, the Bactrians possessed no regular alphabetical system of notation. It has been sugrested that certain letters occurring on the coins of later Bactrian kiugs, e.g. Hippostratus, Azas and Azilisas, express numbers and dates. If so, the idea, or even the system, must have been obtained from the Greeks, and this is rather rendered probable by the fact that these sigus often seem differcutiated by the vowel $i$, which was used by the Greeks to express 'ten.' If these figures represent numbers at all, thercfore, they are probably low numbers, and if dates, regnal dates only.
${ }^{3}$ Of course they were not altogether debarred from expressing the intermediate numbers, for they could have nsed the Phœmician and Baetrian mode by which the highest of these were expressed by groups compounded of the sigus for 20 and for 10, and in which $20+10$ stood for $30 ; 20+20$ for 40 , etc. This Phemician method of counting by twenty and tens together, must apparently have been the origin of the Modern French "soixante-dix," "quatre-vingt," etc., coming down from the usages of the early lhonician colonists of Marseilles and other seaports. It is curious that this awkward and antiquated method shonld have supersederl the far more convenient and expressive "septante," "octaute," and " nomnante."

Learing, however, this portion of the subject, it is necessary to consider low far such long series of suggested borrowings from foreign sourees was either possible or probable.

The possibility turns of course mainly on the degree of intereourse which existed in ancient times between the Indians and the older Phœnicians, the Baetrians, the Egyptians and other neighbouring nations. This question opens out an enormous subject, into the discussion of whieh it is impossible to enter at full length, and which has been exhaustively treated by many writers of high authority, such as Lassen (Indisehe Alterthumskunde, speeially in rol. iii.), Reinaud (Memoire sur l'Inde, and in other papers ${ }^{1}$ ), Heeren, Weber, and others. It will suffice, therefore, merely to eite very briefly a few leading faets, which will show that the connection between the Indians and other neighbouring nations, was both more ancient and more extensive than is ordinarily believed; and that their intereourse with the nations of the west was ehiefly earried on through the ports and eities on the Western Coast of India.

As regards the Phœnicians, evidence has been brought to light by recent arehrological enquirers, which renders at least possible the view ${ }^{2}$ that their original seat was on the eoasts of the Persian Gulf, as explained by Sir H. Rawlinson, J.R.A.S. Vol. NII. n.s. p. 218, and in the same place, pp. 212-215, will be found a discussion on the early commeree between the ports on the Red Sea on the one hand, and of the Indian Coasts on the other-through the intermediate ports of the Persian Gulf. For a sketeh of the actual trade earried on by the Phœnicians, both by sea and land, see Humboldt's Cosmos, vol. ii. pp. 128 to 133 (DIurray's edition). ${ }^{3}$ Solomon ${ }^{4}$ no doubt employed the aid of the Phœnieians, beeause of their already reeognized skill in navigation and knowledge of Eastern commeree, when he desired to procure

[^127]the valuable commodities of the East; and the intercourse of the Phœnicians with Eastern nations must therefore, even at that early date, have been thoroughly established. It is now beyond doubt that, whatever may have been the exact locality of Ophir, the goods which Solomon imported thence were distinctly Indian productions. Nor is there any greater improbability in the supposition, that the Phœenician traders were in frequent intercourse, from very remote ages, with the coasts of India by the Persian Gulf and Red Sea, than with the coasts (to them more difficult of access) of Britain and even of Northern Europe, as it has long since been acknowledged that they were. It was of course with Western India, and indeed with the upper part of the coast of Western India, that this intercourse, whether by sea or land, must have commenced. By land, the route lay through Sind. By sea, the favouring monsoons to which alone the ancient vessels would trust themselves blew from the S.IV., and took all ships, whether from the Red Sea or Persian Gulf, naturally to the upper coast. Besides, below Bombay on that coast there is no harbour which can usually be made with safety by sailing. ships during the S.W. monsoon, at least till as far South as Aleppee. It was no doubt for this reason that, as Reinaud shows, ${ }^{1}$ the direct intercourse with Europe was up to a late date confined to the Western Coast, though afterwards it extended to Ceylon. Neither is there any reason to belicve that this intercourse diminished in more modern times, as the demands of increasing civilization in the West afforded growing markets for the luxuries of the East;-Egypt no doubt was one of the earliest and largest of these markets-and there can be little doubt also that it was supplicd at first mainly through the agency of Phœnician traders-whether by land or sca. In the Inscription of Cittium, as translated by the Duc de Luyncs, ${ }^{2}$ mention is made of the Phœnicians "residing in Egypt," who can hardly have been anything but resident traders, and this inscription is attributed to the sixth century b.c. It may be uncertain how far at this period

[^128]any portion of this Eastern trade fell into the hands of the Egyptians themselves-though at a very early date some of their kings scem to have narigated at least the eoasts of the Red Sea. Later on, events oceurred whieh drew still eloser the eonneetion between the nations of the East and West. Political events sometimes brought the rulers of $\Lambda_{\text {ssyria and }}$ Babylon into hostile contact with the raees of Canaan and of Egypt, and sometimes into friendly or tributary relations. Under the Persian Empire, whieh reaehed Westward to Egypt, and to the borders of Grecee, and whieh overlapped the frontiers of India in the Bast-it secms eertain that intereourse between the extremes of that Empire, powerful, rieh, and luxurious as it long was, was fostered rather than ehecked by their mutual relations to its eentral authorityGreek adventurers in no insignifieant numbers passed into Persia and resided there, and it may be presumed that Egyptian fortune-hunters were hardly less numerous. The Greeks through these means gained eonsiderable information of India and Indian affairs, and it may be taken almost for granted that the Egyptians were in relations with India and the East at least as elose, and enjoyed knowledge of Indian matters equally intimate. Moreover, it is hardly to be supposed, on the other hand, that the quiek-witted natives of India were slow to avail themselves of the opportunities thus afforded to them of acquiring some knowledge of the advantages possessed by Western nations.

Later on, the marvellous fortune whieh led Maeedonian troops, not only to Persia, but aeross the Indus to the banks of the Bias, and whieh planted in Central and Western Asia, several dynasties all partaking more or less of Greek origin, added another great stimulus to the progress of relations between Europe and the East. The Courts of these kings beeame centres of a new eulture, where Greek eustoms and the Greek language prevailed-as was also the ease in Egypt. Without doubt these eireumstanees all added largely to the knowledge whieh Asiaties possessed of European and Egyptian matters, and to the more perfeet knowledge of Asiatie affairs in the West. Moreover, after the great trading eities of the

Phonicians were ruined by the attacks of the Macedonian and Syrian kings, the direct traffic, which had become thus stimulated and enlarged, fell in a great measure into the hands of those who traded through Egypt and the Red Sea. Later still, the Romans came on the scene, both as traders and politicians; and so early as the latter half of the last century в.c., the Romans (to say nothing of other nations) maintained mercantile establishments in all the chief ports of the Eastern seas. ${ }^{1}$ With the favouring monsoon of every year, two thousand persons sailed from the ports of Egypt to those of the Red Sea, the Persian Gulf and of the Indian Peninsula; while the reverse monsoon brought to Egypt a similar influx of visitors or returning voyagers from the same quarters. These facts alone may be held sufficient to show the enormous intercourse which by that time had grown up between the West and the East, and which, considering the difficulties of ancient navigation, it must have taken a long course of years to establish. Intercourse of this nature must too have given to the Indians opportunities of learning, amongst other things, the Egyptian numeral systems, and it is to be observed that the Indian borrowings from this source have on other grounds been placed amongst the latest obtained from any traceable origin.

Nor, while habits of mercantile enterprize were thus created in India, especially on the western coast, is it probable that the facilities afforded by the passes of Western Afghanistan for intercourse with Bactria, Persia, and Central Asia, were wholly neglected. Many of the products most valuable for western commerce, such as musk, saffron, assafoctida and other drugs and dyes, were obtained in this dircetion, or from Kashmir through the Panjab, where the Bactrian alphabet and numerals were also in usc.

Under these circumstances, it is hardly likely that the

[^129]Indians should have long remained in ignorance of the systems of notation employed in these scveral forcign eountrics, or that they shonld have hesitated to avail themselves of such convenient in ventious. If the theory offered be accepterl, they wonld have naturally adopted entire the carliest with which they came in contact, the archaic Phonician. Nor is there any reason to suppose that they would decline to avail themselves of any improvements which they eame to know later on ; on the contrary, it is abundantly elear from many facts in their history, that the Hindu people have always possessed a great facility for appropriating and assimilating anything which it was advantageous to make their own, blending even into their religion the traditions and superstitions of tribes and scets with whom they found it expedient to amalgamate; and they would hardly have bcen less ready to adopt from abroad, any signs which would render their method of numeration more complete or more convenient.

The Bactrian numerals would thus have given them a very convenient sign for four, in lieu of the clumsy group of four separate strokes, and a very distinct sign for twenty, whieh was always, in the archaie Phonieian, liable to be eonfornded with some of the forms of ten, and which was actually identical with the 'ten' of the Himyaritic (or Sabran) of later times. The Baetrian hundred, too, was far more easily written than the old Phœnician, being eomposed of two strokes inclined to each other, instead of three at right angles, as in the Phœnieian hundred. Again, if the introduction of the 'abaeus' was, as has been suggested, accompanied by a knowledge of the special alphabetic signs already employed with it in Bactria, the Indians wonld hardly have rejected the convenience which these signs afforded. And thins, accustomed to improvements, they would not have neglected to adopt the neat mode of differentiation which they fomnd in the Egyptian hieratic, when at a later date they beeame acquainted with it, or have failed to adopt, later still, the more easily written and easily distinguished signs for 100 and 1000 which they saw in the hieroglyphie.

The method in which the Indian numeral system grew up having been thus suggested, it is to be remembered that what has been said above applies, of course, only to the original formation of the Indian numeral system, as it stood at the commencement of the Christian era; and the table in Plate I. is intended only to show this, together with some of the leading shapes through which it subsequently passed before the simplification of the mode of notation.

This last reform caused the disuse of the special signs for the higher numbers, and brought other influences to bear, which superseded the influence of aksharas, and which determined by degrees the modern forms even of the signs for the units which remained in use; these points will be considered in their proper place. It will not be attempted, however, to trace all the variety of shapes (in a great measure determined by local accidents), which grew up in various parts of India, and which indeed, to some extent, prevail even now. On this point, Woepcke (Journal Asiatique, series 6, vol. i. p. 275) quotes the words of Albiruni (writing in the beginning of the eleventh century), which are here reproduced in their translated form :"De même que les figures des lettres sont differentes dans (les differentes parties de) leur pays, de même aussi les signes de calcul (varient): Ceux-ci sont appelés ankia (ÉSíl). Ce que nous employons (en fait de chiffres), est choisi parmi ce qu'il y'en a de mieux chez les Indiens; et peu importent les formes pourvu que l'on connaisse les significations qu'elles renferment. Les Cachmiriens ${ }^{1}$ numerotent les feuillets à moyen de chiffres qui resemblent à des dessins d'orncments, ou aux lettres des Chinois, que l'on n'apprend à connaitre que par longue habitude et par des efforts constants, et que l'on n'emploie pas dans le calcul (excecuté) sur la poussière."

Passing from Northern to Southern India, and from East to West, we still find numerals employed, which it is difficult

[^130]to believe can bo in any way traced to the same originals; for example, the ordinary Hindi numerals, whieh are eertainly directly descended from the older forms, seem at first to bear no resemblance whatever to the Tamil or Malayatam forms, or to those still in use in Ceylon. Much of this difference has arisen from the fact, that the former have been brought into their present shapes by a new influence, the latter by that of the aksharas; and this opportunity may be taken for saying that the continued efforts of Brahman teachers to bring the shape of the Indian numerals into accordance with the alphabetical signs which express the aksharas, though they will not be dealt with in this paper, constitute an essential part of the history of Indian numerals; for this operation was most important, and its ultimate rcsults are, as in the ease of the Tamil numerals for example, and in many other instances, still visible. But this part of the subject in itself deserves detailed treatment in a separate essay, and this has been given in Professor Bühler's public lectures, which have been already delivered and are in course of publication. Moreover, the alisharas, as has been said, lost their command orer the forms of numerals when the simplified notation was introduced, and therefore their history does not bear directly on the object of the present paper, which deals more directly with the question of the descent of our modern numerals, which were little affected by this influence.

It is, however, necessary to say a few words on the important share which the akisharas once bore in the general history of numeration, ${ }^{1}$ which cannot be altogether passed over.

It may be taken as almost certain that the aksharas (of course not necessarily the particular Sanskrit aksharas of which Dr. Bühler writes, but other equivalents), phonetic numerals, in short, of some kind or another, were of immense antiquity and very wide diffusion.

[^131]So far as actual proof exists, ${ }^{1}$ no numerals can be referred to an earlier date than those connected with the hieroglyphics on the tombs of the Egyptian kings of the fourth dynasty, whose period by a moderate computation is placed about 2900 to 3000 b.c. It may not be safe to assume that no numeral signs existed at a prior date; but even at that period the hieroglyphic alphabet had barely passed out of its earlier syllabic form; and the early Egyptian and other similar archaic systems of numeration, were certainly too clumsy to have been employed as instruments for making calculations, or for teaching sciences which involved the rise of such calculations. Nevertheless, it is pretty certain that at the period of the fourth Egyptian dynasty the people of that country, (and indeed several other races of mankind) had obtained a fairly high degree of civilization and of knowledge.

Geometry, ${ }^{2}$ for example, must early have risen into importance in Egypt, by reason of the obliteration of land marks during the inundations of the Nile. The connection of the heavenly bodies and their motion with the divisions of time was certainly very early noticed, and the worship of the "hosts of heaven" not only necessitated, but gave a sacred character to the science of astronomy and to its concomitant, astrology. For the pursuit and communication of these sciences, the rude modes of notation by groups of signs, such as those which constituted the earlier Egyptian and Phœenician systems were manifestly wholly unfit, and even still more so the purely pictorial form of the oldest hieroglyphics. No other known mode of dealing with numbers, except that by phonetic forms, would have sufficed the necds of the human race under these circumstances; and these had the advantage of lending themselves with perfect facility to the construction of metrical formulæ, which could be easily taught and committed to memory. That such a method prevailed in India long before the Christian cra,

[^132]Dr. Bühler's researches show. It exists ${ }^{1}$ to this day, not only in Sanskrit writings, but in a living form in those Sanskrit schools and colleges which are conducted on the old native plan, and it is still used for the conveyance of all forms of knowledge. ${ }^{2}$ Of course, when the abacus ${ }^{3}$ came into use, it would at least be capable of superseding the use of aksharas for making calculations, though not necessarily for teaching their results. Indecd, even long after this invention


#### Abstract

${ }^{1}$ For example, in the Sanskrit (Native) Colleges at Kishnagur in Bengal-and the following amusing note, borrowed from Dr. Burnell's South Indiau Palaography ( p .65 , list ed.), illustrates this state of things from the early Arab poiut of view. Albiruni (Reinaud, Memoire, p. 234) gives a remarkable instance of the Indian tendeucy this way: "Les livres des Indiens sont rédigés en vers, les iudigènes croient par là, les rendre plus aisés à retenir dans la mémoire, ils ne recourent pas aux lirres qu'à la dervière extrémité. On les woit méme s'attaeher a apprendre des vers dont ils ignorent tout a fait le sens. J'ai reconnu à mes depens l'inconvénient de cet usage. J'avais fait pour les indigènes des extraits du traité d'Euclide et de l'Almageste ; j'avais composé un traité de l'Astrolabe afin de les iuitier aux méthodes Arabes, mais aussitôt ils mirent ccs morceaux en "slokas,' de manière qu'il ćtait deveuu peu faeile de s'y rcconnaitre." Dr. Burnell adds, "I have nyself scen the Penal code put into Tamil verse." ${ }^{2}$ It does not follow that these were always merely syllables-they were in many cases doubtless, as they even now are in Sanskrit, words bearing other significations-see the papers on the subject already cited in a previous note at p. 33. ${ }^{3}$ Perhaps in the Greek form of the name of this instrument some trace cxists of the use of the 'aksharas.' Admitting that it was probably in its origin, the Semitic term for the material on which the signs were traced, 'fine dust' or ' abak,' yet it was an occasional practice of the Greeks to adapt foreign terms and even names, so as to bear a signification in their own tonguc. "A Bag, the Greek form of the term, is ideutical with an adjective ${ }^{\circ} \beta a \xi$, giren by Eustathius as the base of the word $\dot{\alpha} \beta \alpha \alpha_{n} \eta \sigma a \nu$, which is found in the Odyssey-in the sense of being 'unconscious' or 'helplessly ignorant,' 'like infants'; the word occurs in a speech of Helen to Menelans, who, speaking of the visit of Ulysses to Troy, says :


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[^133]came into use, the teachers of the sciences to which the use of numbers mainly pertained, always in ancient days more or less belonged to peculiar classes, whose interest it was not to vulgarize their knowledge, or needlessly to facilitate its aequisition by the outside public.

While admitting, however, the direct influence, up to the seventh century, of the aksharas, on the forms which the Indian numerals assumed, this did not (as has been before said), probably, altogether exclude the influences of other and especially of local circumstances. As a general rule, moreorer, the forms borrowed last in point of time will be found to have been employed first in the west, and to have penetrated more slowly eastwards. Thus, the two contemporary dated edicts of Asoka, found in the East and West, exhibit differing forms for each one of the three ciphers of which the date consists; and in the Gupta period the figures on the silver coins intended for circulation in the West, differed materially from those found on the inscriptions, which oecur chiefly in the East. Possibly, too, something may be due to dynastic or national influences, for the Gupta and IndoScythic forms introduced a few marked peculiarities.

Before quitting this part of the subject, which deals with the question of the origin of the Indian numeral signs, it will be expedient to mention one special set of symbols, ${ }^{1}$ which, though of comparatively rceent formation, is yet of peeuliar interest, both as illustrating the bold method in which the Indians could 'manufacture' signs, and also because their existence explains certain anomalous forms still found in some of the modern systems of numerals.

These are a set of signs for 'onc,' 'two,' 'threc,' and 'four,' which have hitherto been found only on the coins of a dynasty of Hindu Kings of Kabul and of the Northern Panjab, who were contemporary with the earlier Mahomedau invaders of India.

These signs will be found set out in Fig. 6, Pl. II. The

[^134]whole set of numerals to which they belong is of importance, as regards the chain of deseent of certain of the modern forms, in which they form an important link. The first four munerals alone have a special origin, which requires fuller elueidation in this place. It will be seen by Fig. 6, Pl. II., that they were obtained by differentiating the upright stroke, which was the ancient Bactrian symbol for 'one,' in order to obtain signs for 'two,' 'three,' and 'four,' exactly on the prineiple of the Indo-Egyptian method employed in the old Indian numeral system to distinguish the signs for two, three, and four hundred, from the sign of one hundred. ${ }^{1}$ That is to say, the sign for 'one' took one spur mark on the right side to convert it into 'two'; a sceond spur stroke (not, however, joined to the body of the sign, but superimposed, probably for convenience of cursive writing, on the end of the first side stroke) converted the sign for two, into one for three. The addition of the old Sanskrit unit symbol for 'four' to the extremity of the last side stroke of the three, as used to express four hundred, converted this last into the sign for 'four.' These last two symbols exist in their original form only on one coin each respectively, but the 'four' is found passing through several stages, till it approachos the form of the earlier Arabic 'four,' of which it was the palpable prototype, as the others were of the one, tro, and three of the Arabic system. ${ }^{2}$

It is not easy to say when these symbols were invented. The original Bactrian system of numerals certainly remained in use with the Bactrian alphabet even in the Punjab through the whole of the first century b.c., though how much later it lasted is not so evident. The novel system must have been invented when the Indian principle of notation replaced the Bactrian, for not only the mode of notation, but the actual symbols for the higher numbers are clearly taken from Indian originals; and it would seem probable that this importation

[^135]took place while the Indians still employed the cumbrous group of single strokes for one, two and three. If the simple and cursive forms, later on adopted in India, had been then in use, the northern people would scarcely have been at the pains to invent less simple signs for themselves; and yet, as will be shown hereafter, the new signs for one, two and three were probably the earliest of the cursive signs employed in India. Possibly the invention just described may be assigned to a period between the beginning of the second century at the earliest, and the middle of the sixth century A.D., at latest.

## References to Authorities for the Figures on Plate I.

Column A. The whole of this column is taken from Rossi's Grammatica Copto-Geroglifica, except the cipher for 100 , copied from Pihan, Signes de Numeration, and Kminek Szeddo, Saggio Filologico.

Column B. This column is taken from Leon Rodet's transcript of the Rhind Papyrus (Journal Asiatique, series 7. vol. xvii.), which follows Eisenlohr's work on the mathematical papyri in the British Museum, except the last figure, which is taken from Pihan's Signes de Numeration.

Column C. Pihan, Signes de Numeration; Gesenius, Phœn. Monumenta, pp. 85, 89, and pp. 164-5 ; De Luynes, Satrapies et Phénicie, Paris, 1846, p. 112, and p. 42.

Column D. Dowson on the Taxila Inscription, J.R.A.S. o.s. Vol. XX.; Cunningham, Arch. Survey of India, vol. v. pl. xvi.

Column E. Cunningham, Corpus Inscrip. Ind. Kapurdigiri Inscription, 1st Edict. chh, lines 1 and 2; $p$, line $1 ; g$, lines 9 and 10 ; $a$, line $1 ; b$, line $7 ; h$, line 7 .

Column F. Pandit Bhagwánlál Indraji, Indian Antiquary, vol. vi. pp. 44, 45.

Columns G. and H. Cunningham, Corpus Inscript. Ind. Sasseram and Rupnath Inscriptions; also photograph of Rupnath Inscrip. Buihler, "Three new Edicts of Asóka."

| $\begin{gathered} \text { A.B. } \\ \text { Egaphlian } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  | Plate I． |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { B. } \mathrm{C} \\ & \text { tian } \\ & \text { an } \end{aligned}$ | D．EBactria$\frac{0}{2}$0 |  | F．G．H．I．J．K． Farlust InchanKshatrapa 300BC to AD 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { む゙ } \\ & \text { 山̈g } \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 | 1 |  |  |  |  |  | － | － | － | － | － | － | － |  |  | $\bigcirc$ |  |
| 2 | II | 11 | 11 |  |  |  |  |  | $=$ | $=$ | $=$ |  | $=$ | ＝ | $=$ | $=$ | $=$ | $\star$ | 2 |
| 3 | III | III | III |  | 三 |  |  |  | 三 | 三 | 三 | E | 三 | 三 | 三 |  | ミ | ＊ | 3 |
| 4 | IIII | － | X | Forn | ł | X |  |  | 7 | $y$ | y | 7 | 7 | 4 | $7^{2}$ |  |  | y | 4 |
| 5 | IIIII | ＂ 1 | $\times$ | f ${ }^{\text {pa＇}}$ |  |  |  |  | 1 | n | F |  | 万 | 下 | r | gr | 2 | F | 5 |
| 6 | III | $\underline{y}$ |  | Yoga | $\varphi$ | $\}$ | $\varphi$ | $\varepsilon$ | 4 | $\varphi$ | $\varphi$ | $\varepsilon$ | $\varepsilon$ | 6 |  | 5 | $\zeta$ |  | 6 |
| 7 | IIII | 2 |  | $7^{\prime}{ }^{\prime}$ | 7 |  |  |  | $?$ | 7 | $\bigcirc$ | ？ | 1 | $J$ |  | $\bigcirc$ | 3 |  | $y$ |
| 3 | IIII | $=$ | xx | 〕 $1 / a$ |  |  |  |  | 5 | 5 | 5 | 5 y | $y$ | ᄃ | 7 | Y | द |  | 8 |
| 9 | IIIII | $\sqrt{6}$ |  | $2 \%$ |  |  |  |  |  | 3 | 3 | 35 | 5 | 3 | N | $\bigcirc$ |  | 9 |  |


| sis |  |  | $9^{2}$ | 88 |  | 8 |  |  | 8 | \％ | § | 8 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\pi$ |  |  |  | $t$ |  |  |  |  |  | 砍 | 㸚 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | \％ |  |  |  |  |  |  |  |  |
| R |  | $\pi$ |  | 48 | 8 | \＄ |  | ₹ | \％ |  |  |  |  |  |  |  |  |
| $\pi$ | $\omega$ |  |  | $\rightarrow$ |  | セ | $\sim$ |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 0 | $\theta$ | न |  |  |  |  |  |  |  |  |  |  |
| \％ | 0 |  |  |  | － | $\oplus$ | $\sim$ |  |  |  |  |  |  |  |  |  |  |
| I |  |  |  | $\square \theta$ | ө | $\oplus$ |  |  | $\varepsilon ⺀$ |  |  |  |  |  |  |  |  |
| $x$ | $\bigcirc$ |  | ת | T |  |  | $\varepsilon$ |  |  |  |  |  |  |  |  |  |  |
| $\times$ |  |  |  | $\dagger$ |  |  | $\varepsilon$ | ह | 5 |  |  |  |  |  | $\sim$ |  |  |
|  | $\bigcirc$ | ， |  |  |  |  |  |  | I |  |  |  |  |  |  |  |  |
|  | n | n |  |  |  |  |  |  | $r$ |  |  |  |  |  |  |  |  |
|  |  |  | T |  | $\theta$ |  | $\pm$ |  |  |  | ＊ |  | $\pm$ |  | － |  | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | － |  |  |
|  |  |  |  |  |  |  | $\bar{F}$ |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | I |  |  |  |  |  |  |  |  |  |  |
| $\leqslant 1$ |  | r $\quad 1$ |  | $\overline{\text { m }}$ | 三1 | 피 | 2 |  |  |  | 3 B | 8\％ |  | ¢ | $\sim \square^{2}$ | \％ |  |
|  |  |  |  |  |  |  |  |  | $a \stackrel{a}{a}$ | 会 | － |  |  |  |  |  |  |
| ह | － | 5 | 8 | ？है |  |  |  |  | ร \％ | 8 |  |  |  |  |  |  |  |

## Column I.

1. Karlé cave, No. 15. Burgess, Memorandum, No. x. on Cave Temple Inscription, p. 30. Photograph.
2. do. do. p. 36, Karle caves, No. 20. Photograph.
3. As for ' 2 .'
4. do.
5. do. do. p. 44, Junár Inscription, No. 9. do.
6. do. do. do. do. No. 25. do.
7. As for ' 1. ' do.
8. J.R.A.S. Bombay, vol. vii. Nasik Ins., No. 17, also 25, line 6.
9. do. do. vol. v. do. do. No. 2, line 1.
10. As for 5.
11. Burgess's Memorand. No. x. p. 34 ; Karlé Caves Ins. No. 34, Photograph.
12. do. do. Junár Ins. No. 25, and Nasik Ins. No. 16 ; J.R.A.S. Bombay, vol. viii. pp. 228-29, and vol. vii. p. 52.
13. do. Ushwadatta's Ins. Nasik Cave, No. 16.
14. J.R.A.S. Bo. vol. r. Nasik cave 2; vol. vii. Ins. Cave, No. 21.
15. do. do. do. do. do. No. 26.
16. do. do. do. No. 16. do. do. No. 16.

## Column J. Earlier Kshatrapah. ${ }^{1}$

1. My coin of Rudra Sinha, son of Rudra Dama, dat. 141.
2. do. do. do. dat. 112 (also Junagarh Ins. J.R.A.S. Bomb. vol. rii. p. 118).
3. do. do. dat. 103.
4. Coin of Damajáta Sriyah, Thomas's facsimile from Dr. Stevenson's coin, dat. 154.
5. My coin of Damajáta Sriyah, dat. 155.
6. Coin of Vijaya Séna, Thomas's facsimile from Stevenson's coin, dat. 166.
7. Jasdan Ins. J.R.A.S. Bomb. vol. vii. p. 234.
8. My coin of Rudra Séna, son of Rudra Sinha, dat. 138.
9. do. do. of Vijaya Séna, dat. 169.
10. My coin of Rudra Séna, son of Rudra Sinha, dat. 112.
11. do. do. do. dat. 122.
12. As ' 8 .'
13. My coin of Rudra Séna, son of Rudra Sinha, dat. 140.
14. do. do of Damajata Sriyah, dat. 155.
15. As ' 5 .'
${ }^{1}$ The division between the earlier and later Kshatrapahs is taken, somewhat arbitrarily perhaps, at the close of the reign of Rudra Séna, son of Vira Dama, whose dates extend to 198.

## Column K. Later Kshatrapah.

1. My coin of Swami Rudra Séna, son of Swami Rudra Damna,
2. do. do. do. dat. 272 .
3. do. do. Rudra Séna, son of Vira Damna, dat. 183.
4. Coin belonging to Capt. Temple of do. do. dat. 184.
5. My coin of Swami Rudra Séna, son of Swami Rudra Damna, dat. 295.
6. My coin of Rudra Séna, son of Vira Damna, dat. 186.
7. do. Swami Rudra Séna, son of Swami Rudra Damna.
8. do. do. do. do. dat. 298.
9. do. Atri Damna, son of Rudra Séna.
10. My coin of Atri Damna, son of Rudra Séna, dat. 213.
11. do. Viswa Sinha, son of Atri Damna, dat. 22.
12. do. Asa Damna, son of Rudra Séna, dat. 243.
13. do. Swami Rudra Séna, son of Swami Rudra Damna, dat. 272.

| 80. | do. | do. | do. | do. | dat. 286. |
| ---: | :--- | :--- | :--- | :--- | :---: |
| 90. | do. | do. | do. | do. | dat. 298. |
| 200. | do. | do. | do. | do. | do. |
| 300. | do. | do. | do. | do. | dat. 300. |

## Column L.

1. Cunningham, Arch. Survey of India, vol. iii. pl. xiii. figs. 2, 4, 6, and pl. xiv. fig. 9.
2. Cunningham, Arch. Survey of India, vol. iii. pl. xiv. fig. 9.
3. do. do. do. vol. iii. pl. xiv. fig. 9, pl. xv. fig. 17.
4. do. do. do. do. pl. xv. fig. 8.
5. do. do. do. do. pl. xiii. figs. 2, 3.
6. do. do. do. do. pl. xiv. fig. 14.
7. do. do. do. do. pl.xiv.figs. $10,11,12,13,14$.
8. do. do. do. do. pl. xv. fig. 20.
9. do. do. do. do. pl. xiv. fig. 23.
10. do. do. do. pl. xiii. fig. 2 and 6 , and pl. xiv. fig. 9.
11. do. do. do. do. pl. xiii. figs. 3 and 7.
12. do. do. do. do. pl. xv. fig. 8.
13. do. do. vol. iii. pl. xv. fig. 8 , and pl. xiv. fig. 11, 12, 13, 14 .
14. Growse on Mathura Ins. Ind. Antiquary, vol. vi. p. 219, fig. 11.
15. Cuuningham, A rch. Survey of India, vol. iii. pl. xv. figs. 16, 17,18. 90. do. do. do. vol. iii. pl. xv. figs. 19 and 20.
16. do do. do. do. pl. xiv. fig. 14.

## Column M.

1. Chandra Gupta Ins. Udayagiri, Cunningham, Arcl. Survey, vol. x. p. 19.
2. do. do. fig. 1 .

3,4 , and 5 , as 1 .
6 and 7. From Pandit Bhagwín Lál Indraji's facsimiles in Indian Antiquary, vol. vi. pp. 44 and 45.
8. Ins. at Jitha, Cumningham, Arch. Survey, vol. xi. pl. iv. p. 2 ; also at Garhwa, vol. x. pl. v.
9. Pandit Bhagwán Lál's facsimiles, Ind. Ant. vol. vi. pp. 44 and 45 ; also Cunningham, Arch. Survey, vol. x. pl. iv. fig. 2. 10. Cunningham, Arch. Sursey, vol. x. pl. iv. ; also vol. iii. pl. iv. fig. 1.

| 20. | do. | do. | vol. x. pl. iv. fig. 2. |
| ---: | :---: | :---: | :---: |
| 30. | do. | do. | vol. iii. pl. xx. fig. 1. |
| 80. | do. | do. | do. $\quad$ do. |
| 90. | do. | do. | vol. x. pl. v. fig. 1. |
| 100. | do. | do. | do. pl. iv. fig. 2. |

## Column N.

1. Coin of Ǩumara Gupta, Thomas's transcription.
2. My coin of Skanda Gupta, dat. 142.
3. Coin of Skanda Gupta, Cunningham, Arch. Survey, vol. ix. pl. v. fig. 9, dat. 144 ; second from coin of Buddha Gupta, dat. 174, vol. ix. pl. v. fig. 13.
4. Thomas's facsimile.
5. do. do.
6. do. do.
7. do. do. as No. 1.
8. My coin of Skanda Gupta, dat. 142.
9. Coin of Toramana, Cunningham, Arch. Survey, rol. ix. pl. $\nabla$. fig. 18.
10. do. of Buddha Gupta, as 2nd form of 4.
11. My coin of Bakra (Chandra?) Gupta. Indian Antiquary vol. vi. for 1877, p. 57.
12. As 4.

## Column O. Early Valabhi. ${ }^{1}$

2. Graut of Dháraséna II. Ind. Ant. vol. vi. (photograph made by Dr. Bühler in my possession).
3. do. do. Ind. Ant. vol. viii. for 1879, p. 301. Photograph.
4. do. Guhaséna, Ind. Ant. vol. iv. for $1875, \mathrm{p} .174$. Photograph by Dr. Bühler in my possession, also grant of Siladitya I., J.R.A.S. Bombay, vol. xi. p. 311.

[^136]7. Grant of Dhruvaséna I., Ind. Ant. vol. v. 1876, p. 204. Phot.
8. do. Siladitya I. do. ix. 1881, p. 239. du.
9. do. Dharaséna I. do. do. do.
10. do. do. do. do. do.
40. do. Guhaséna do. v. 1876, p. 207. do.
60. do. do. do. vi. 1877, p. 9 do.
70. do. do. do. vii. 1878, p. 73. do.
80. do. Siladitya I., J.R.A.S. Bombay, vol. ii. end.
90. do. do. Ind. Ant. vol. ix. 1880, p. 239. Phot.
200. do. Dháraséna I. do. v. 1876, p. 204. do.

Column P. Middle Valabhi.
3. Grant of Dháraséna IV., Ind. Ant. vii. 1878, p. 900. Phot.
5. do. Dhruvaséna II. do. vi. 1877, p. 15. do.
6. do. Dháraséna IV. do. 1872, pp. 16 and 64. do.
7. do. Kháragriha II. do. vii. 1878 , p. 78. do.
8. do. do. do. do. do.
10. do. Dhruvaséna II. do. vi. 1877, p. 17. do.
20. do. Dháraséna IV. do. i. 1872, pp. 16, 64. do.
30. do. Dháraséna IV. do. vii. 1878, p. 94. do.
200. do. Dhruvaséna II. do. vi. 1877, p. 15. do.

Column Q. Later Valabhi.

1. Grant of Siladitya V., Ind. Ant. vol. vi. 1877, p. 19. do.
2. do. Siladitya III. do. v. 1876, p. 211. do.
3. do. Siladitya IV., J.R.A.S. Bombay, vol. xi. p. 311.
4. do. Siladitya V., Ind. Ant. vi. 1877, p. 19. Phot.
5. do. Siladitya V. do. vi. 187, p. 19. do.
6. do. Siladitya IV. J.R.A.S. Bombay, vol. xi. p. 311.
7. do. Siladitya V. Ind. Ant. vi. 1877, p. 19. Phot.
8. do. Siladitya III. do. .v. 1876, p. 211. do.
9. do. Siladitya III. do. do. do. do.
10. do. Siladitya IV. J.R.A.S. Bombay, vol. xi. p. 311.

## Anr. XXIII.-The Cuneiform Inscriptions of Van, deciphered and translated. By A. H. Sayce.

It is now more than half a century ago that the existence of inscriptions written in the Cunciform character, and found in different parts of Armenia, first became known. The French Professor, Saint-Martin, in 1823, gave an account in the Journal Asiatique of the antiquitics of Van, and drew attention to the fact that the Armenian historian, Moses of Khorene, las described them in such detail as to make it probable he had seen them with his own eyes. In the curious romance, compiled partly from the Old ''estament, partly from the legends of Greek writers, partly from the names of localities, which was made to take the place of the forgotten early history of Armenia, these monuments were ascribed to Semiramis, to whom Van was imagrined to owe its foundation. Saint-Martin concluded that some of them, at any rate, must still be in existence, and at his instigation, therefore, a young scholar from Hesse, Prof. Fr. Ed. Schulz, was sent by the French Government to Armenia, in 1826, in order to examine them. In 1828, accordingly, Yan and its neighbourhood were thoroughly explored by Schulz, who succeeded in discovering and copying no less than forty-two Cuneiform inscriptions. Considering his utter ignorance of both the language and the character, the accuracy of his copies is really wonderful. They were published in the Joumal Asiatique (3rd ser. vol. ix. No. 52) in 1840 , but the unfortunate discoverer never returned home, having been murdered in 1829 by a Furdish chief, along with several officers of the Shah of Persia. His papers were subsequently recovered from the Prince of Julamerk. Three of the inscriptions turned out to belong to the Persian king Xerxes, and to be composed, like other Akhæmenian inscriptions, in the three languages of Persia, Babylonia, and

Elymais. ${ }^{1}$ The remaining thirty-nine were written in a special syllabary and in a language unlike any found elsewhere. An inscription in the same language and syllabary, however, was discovered in 1840 in quite a different part of the country. It was found by a Prussian officer, Capt. von Mühlbach, a little to the west of Malatiyeh, on the eastern bank of the Euphrates, between Isoglu and Kömürhan. The rock on which it is engraved is close to the village of Isoglu, and consequently more than 250 miles westward of Van. The inscription was published in the Monatsberichte über die Verhandlungen der Gesellschaft für Erdkunde zu Berlin, vol. i. pp. 70-75, as well as in the Original Papers read before the Syro-Egyptian Society of London, i. 1, pp. 131 sq., where it is accompanied by " Remarks" by Prof. Grotefend, who laid in them "the first foundation for the future interpretation of the Wedge Inscription discovered on the Upper Euphrates," and corrected Lassen's opinion that the Vannic inscriptions belonged to very early Assyrian kings. Another inscription of the same class was subsequently discovered, in 1847, by Sir A. H. Layard, at Palu, carved high up on the face of a cliff, on the summit of which are the ruined remains of an ancient castle. Palu stands on the eastern bank of the Euphrates, midway between Kharput and Mush, and on the road between Malatiyeh and Van, from which it is about 181) miles distant.

In the same year the first attempt to read the inscriptions was made by Dr. Hincks, whom no problem in decipherment ever seemed to baffle. Two papers were read by him "On the Inscriptions of Van," before the Royal Asiatic Society, Dec. 4th, 1847, and March 4th, 1848, and published sloortly afterwards in the Society's Journal (Vol. IX. pp. 387-449).

[^137]The Persian Cuneiform inseriptions had now been made out, the decipherment of the Assyrian texts had been begun, and Grotefend, in the "Remarks" mentioned above, had compared the inscription of Malatiyeh with those eopied by Sehulz at Van. The aeumen and suceess with whieh Hineks pushed his researehes is, however, surprising. He determined the values of a considerable part of the characters, and in this way settled the phonetic powers of several characters in the inscriptions of Nineveh which had not previously been known. He endeavoured to translate portions of the inseriptions, and aetually made out not only the meaning of ideographs like those denoting 'people' or 'eity,' but even the signification of one or two words. Thus he showed that the suffix -khini denoted the patronymic, Isbuini-khini-s, for example, being 'the son of Isbuinis,' and that the freqnently-recurring word ada or adae signified 'he says.' He also pointed out that the suffix -s represented the nominative both singular and plural, that the accusative singular was expressed by the suffix $-n i$ (or, as he read it, $n$ ), and that the suffix - $d i$ in the singular eorresponds to -(a)ste in the plural. He thus had the merit of reeognizing that the language of the inseriptions was infleetional, though the inference he drew, that it was Aryan, was a false one. He was no doubt right, however, as we shall see later, in inferring that the in theminative was pronounced simply $s$ and not syllabically se, and it is very probable that he was also right in reading as nin rather than mini. He further noticed that the way in which the characters are engraved is of itself a test of the age of an inscription. In all the later inseriptions a wedge which ought properly to intersect another is divided into two parts ( $-Y$, for example, instead of $y$ ) in order to prevent the stone from breaking at the point of intersection; whereas the inseriptions of the two earliest kings, Sarduris I. and Isbuinis, as well as a few of Menuas, the son of the latter, do not observe this rule, but follow the Assyrian practice of allowing one wedge to run across another. The syllabary, however, was still but incompletely determined, and the royal names were read by

Hincks Niriduris, Skuina, Kinuas, and Arrasnis. But before the publication of Layard's "Discoveries in the Ruins of Ninevel and Babylon," ch. xviii., Hincks had corrected these erroneous readings, and the names accordingly appear as Milidduris, Ishpuinish, Minuas, and Argistis. Of these, the first only is incorrect.

Soon after the publication of Hincks's memoirs, M. de Sauley published a short pamphlet of 44 pages entitled "Recherches sur l'écriture cunéiforme assyrienne: inscriptions de Van" (1848), and the Vannic inscriptions were noticed by Sir H. Rawlinson in the Journal of the Royal Asiatic Society, Vol. XII. p. 475 (1850).

Meanwhile the Hon. F. Walpole had discovered a new Vannic inscription when travelling from Van to Erzerûm in 1850. It was engraved on the broken shaft of a column outside the church of Patnos (Patnotz) between Sulimbak and Melasgerd on the north side of Lake Van. He heard of other similar inscriptions existing in the neighbouring village of Kayelk, but illness unfortunately prevented him from visiting them. ${ }^{1}$ An inscription of Menuas, recording the restoration of a palace, has also been found near Erzerûm, at Hassan Kalâa, the ancient Theodosiopolis, by de Saulcy, and published in his Voyage autour de la Mer Morte, pl. ii. 1.
After the publication of Hincks's paper, little was done for many years towards the decipherment of the Vannic inscriptions. In 1864, however, four new ones were published in the Travels of Nerses Sarkisian, a book written in Armenian and published at Venicc (Nos. 4, 5, 7 and 8). Besides these, Nerses Sarkisian published four others which had already been copied by Scluulz (No. $1=29$ of Schulz, No. $2=27$ of Schulz, No. $3=28$ of Schulz, No. $6=12$ of Schulz). Two more were brought before the notice of European scholars by Prof. Fricdrich Müller in 1870 (Bemerkungen iuber zuei armenische Keilinschriften, Vienna); one of which had been discovered by the Vartabed, Mesrob Scmpadian, at Tsolagerd near Edshmiadzin, and published in the Scptenber number for 1870 of a Journal entitled Ararat which appeared at

[^138]Edshmiadzin. It turns out to be identical with an inscription found by Kästner on the right bank of the Araxes opposite Armavir, and published in the Mélanges asiatiques of the Academy of S. Petersburg, vol. v. p. 117. Another inscription, unfortunately much mutilated, from the neighbourhood of Erzcrûm, was communicated to M. Lenormant by the Armenian priests of the Collége Mourat at Paris.
M. Lenormant himself once more resumed the task of decipherment which had been dropped by Hincks. In his Lettres assyriologiques, vol. i. 1871 (pp. 113-161), he gave a sketch of early Armenian history and geography according to the Assyrian monuments, and at the same time attempted to determine the grammatical forms and meanings of certain words in the Vamnic inscriptions. Sir H. Rawlinson lad already pointed out that the proto-Armenians of Van were in no way Aryans and that tho Alarodians of Herodotus (iii. 94 , vii. 79 ), the Iberians of other writers, probably represent the Urardhians, or pcople of Ararat, of the Assyrian texts. MI. Lenormant now went a step further and tried to show that the language of the Vannic inscriptions, which he proposed to call Alarodian, belonged to a family of speech of which the modern Georgian is the best-known representative. It is certainly a fact that the Georgians once extended much further to the south than they do at present, and are at the same time the nearest existing non-Aryan population to the locality in which the non-Aryan inscriptions of Van are found. It is also a fact that the general structure of the Tamnic language agrees most remarkably with that of Georgian; both are inflectional, though not in the same way as either Aryan or Semitic, while some of the grammatical terminations as well as roots seem to be the same in both.
M. Lenormant, moreover, was the first to point out that the suffix $-b i$ denoted the first person singular of the verb, that the possessive adjective ended in -naue ("Georgian: ani"), and that parubi signified ' I carried away.'

At this point the problem was taken up by the late Dr. A. D. Mordtmann. In 1872 he published a long and elaborate examination of the inscriptions in the Zeitschrift der deutschen
morgenländischen Gesellschaft, vol. xxvi. pt. 3, 4, under the title, "Entzifferung und Erklïrung der armenisehen Keilinschriften von Van und der Umgegend," and five years later followed it up by an additional article on the subject in the same periodical (Z.D.MI. G. vol. xxxi. pt. 2, 3, 1877). Dr. Mordtmann transliterated and analyzed all the inscriptions, adding a running commentary and a most useful index of the words met with in them. He also determined the meaning of twelve new words: adaki 'some' or 'partly,' $u i$ ' and,' asgubi 'I sacked,' susini 'buildings,' udaes ' that,' ini 'this,' siubi 'I led away,' tarsua and khuradia 'soldiers,' kurüni 'given,' zadubi 'I have made,' and zasgubi 'I have slain,' and further suggested that $a d a$ meant 'and.' But he failed to do more, partly because of a false theory, partly through giving incorrect values to a considerable number of the characters. His false theory was the assumption that the Vannic language was not only Aryan, but Armenian, and that it was only necessary to turn to an Armenian dictionary to discover the meaning of every word in the inscriptions. He forgot that, even granting the language to be an early form of Armenian speech, it would still have been impossible to recover the signification of its words by simply consulting a dictionary of modern Armenian, without tracing the past history of the Armenian language and the changes undergone by its phonology. But the early Armenian dialect discovered by Mordtmann in the Vannic inscriptions is, as Hübschmann has remarked (Kuhn's Zcitschrift, vol. xxiii. pp. 46-48, 1877), no Armenian at all in any period of its history, and Mordtmann himself, with all the phonetic and philological licence he allowed himself, was obliged to confess "that in the use of grammatical forms an almost limitless capriciousness prevails, so that not only in similarly formed plrases, but even in the use of the very same words wholly different flections are employed, which makes it impossible, at all events at present, to formulate strict rules." A thicory which compels such a confession to be made stands selfcondemned. Without a grammar no decipherment is possible, and until we are able to compile one, it is clear that our cfforts
to interpret the language have met with no success. But even had Mordtmann's theory been correct, the erroneous values lie assigned to a large number of the characters would have caused his attempt at interpretation to be a fiilure. I have given a list of most of these in an article in Kuln's Zeitschrift (vol. xxiii. pp. 407-409, 1877), in which I criticized his method and conclusions, and pointed out that alsui-si-mi, which he mado to signify 'gracious,' and misread casuisini, really means 'multitudinous' or 'all.' Among his false readings may be mentioned kam and kham for ul, gan for khi-ni, kur for tar, tu for ku, $n a$ for khi, maz for lihal, an for dha, zi for se, and hu for su, while many of the ideographs fonnd in the inscriptions were wholly miseonceived, the determinative prefix of 'stone,' for example, being resolved into $n i-z a$, the ideograph of 'lord' being supposed to mean the god Nebo, and the idcograph of 'tablet' a gate or public bnilding. In fact, Mordtmann was but slightly acquainted with Assyrian and the Assyrian syllabary, and since the Tannic system of writing is entirely borrowed from that of Assyria, it is not wonderful that his attempt to explain it was unsuccessful. It thus becomes intelligible how he could transform a purely Assyrian inscription, that of Sarduris I., the son of Lutipri, into a Vannie one, and endeavour to extract its signification out of the pages of a modern Armenian dictionary. His geographical identifications aptly illustrate his whole method of working. Countries and towns are assigned to definite localities, merely because the names given to them in the inscriptions have a somewhat similar sound to those oceurring in modern maps, or in the classieal geographers, and as so many of the characters are misread, even this faint resemblance frequently does not exist. It is characteristic of him that he changes the name of the god Khaldis into that of the goddess Anaitis, thus misreading the character $\ldots$, on the ground that Anaitis was a leading deity among the Aryan Armenians of the Persian and Greek periods, while the name of the goddess, which the Assyrian inscriptions show us was pronounced Sara or Sar, is transformed into Bagri for a similar reason.

Arbitrary and incorrect as Mordtmann was, however, he added something to our knowledge of the Vannic language, and by classifying and analyzing the inscriptions rendered the work of deciphernment easier for those who came after him. The first who followed him did neither. Dr. Louis de Robert, in a volume published in 1876, and entitled, Etude philologique sur les Inscriptions cunéformes de l'Arménie, undertook to prove that the inscriptions were in Semitic Assyrian! As might have been expected, he proved only that he knew neither Assyrian in particular nor the Semitic languages in general. On every page he displays an utter ignorance of the first elements of Assyrian decipherment. Characters which are used phonetically he turns into ideographs, and assigns meanings to them which they never bore. Where other means fail, a character is divided into two ; YYY 'a tablet,' for instance, is translated 'quatuor, tria'! It need hardly be said that the grammar he finds in the inscriptions is still less Assyrian or Semitic than the grammar which Mordtmann finds in them is Aryan. In fact, Dr. de Robert undertook a most difficult task without first preparing himself for it by the study of Assyrian. He states that the inscriptions given in his book had been copied by himself, but they are usually less correct than the copies of Schulz.

A year or two after the appearance of this philological curiosity some interesting bronze objects were discovered in the neighbourhood of Lake Van, and procured for the British Museum by Sir A. H. Layard. Among them are the representation of a fortress and the figure of a winged bull with human head, which, though made after an Assyrian model, has peculiarities of its own. Along with these objects a bronze shield was found, bearing the name of Ruśas, and thus, as we shall see, fixing their date. The palace from which they were brought has since been exeavated by Mr. Hormuzd Rassam, who has found there fragments of other inseribed shields. ${ }^{1}$

[^139]Mr. Rassam, and subsequently, in 1881, Captain Clayton, have also sent to England squeczes of several inseriptions, some of which wero previously unknown. Tho valuo of these squcezes need not be pointed out, sineo they enable the Cuneiform selolar, who has no opportunity of seeing the orimimals, to examine, for the first time, tho exact forms of the Vamnic charaters.

Sir A. H. Layard had already visited Armenia in 1850, at the time when he was exeavating in Assyria, and had there mado copies of the inseriptions in Van and its immediate neighbonrhood. His eopies, which have never been published, are extremely valuable, as they are much more aceurate than those of Schulz, and not unfrequently clear up a donbtful passage in the latter. Among them, moreover, are several inseriptions which Selmlz did not see; among these may be mentioned the two belonging to Argistis from the ehurel of Surp Sahak (Nos. xlv. and xlvi.), which contain much interesting listorieal and philological matter, and above all tho second Assyrian inseription of Sarduris I. (No. i.). Inseriptions in the Vannic character now began to be noticed to the north and east of Armenia. I have already referred to that eopied by Kästner, near the ruins of Armavir: three others were found by the Vartabed Mesrob Sempadian in Georgia (at Alichalu, S.E. of Lake Erivan, at Elarlı in the same neiglibourhood, and at a spot to the north of Eranos the ancient 'l'sag), and published by him in an Armenian journal appearing at Moskow under the title of Le Nourelliste russe (Nos. $3 \overline{7} a$ (1862), 45, and $53 a$ (1863)). Another inseription was diseovered by Kästner at Kalinsha, near Alexandropol (No. xlvii.), and published in the Mélanges asiatiques de l'Acad. de S. Pétersbourg, vol. iv. p. 675. It is much to be desired that his example would be followed by Russian sarans; an archæological congress which meets at Tiflis, for example, might well despateh a commission to take photographs and squeezes of the Cuneiform inseriptions found within Russian territory before they become wholly illegible. A correct copy of the inseription of Alichalu (No. lv.), which seems of considerable historical importanee, could easily be made. But it
was not in Georgia only that the monuments of the Tannic kings were found to exist. As early as 1838 Sir H. Rawlinson had visited the Cuneiform inscription of Tash Tepéh, near Chillik, on the Tatáu, southward of Lake Urumiyeh, and found it to consist of twenty-one lines of writing (Journ. Roy. Geog. Soc. vol. x. p. 12). A faded photograph of it is now in the Asiatic Museum at St. Petersburg, and a squeeze, which seems to have been lost, was sent by Dr. Blau in 1858 to the Museum of the German Oriental Society at Halle (Z.D.M.G. vol. xiii. p. 259). Westward of Tash Tepéh, in the pass of Kelishin, 12,000 feet above the level of the sea, and not far from Ushneï, Sir H. Rawlinson visited another Cuneiform inscription of forty-one lines engraved on a column of stone (Journ. Roy. Geog. Soc., p. 21). A cast of this was sent to Halle along with the squeeze of the Tash Tepéh inscription by Dr. Blau, through the hands of Prof. Rödiger, but it was unfortunately broken upon the journey. It had previously been copied by Schulz, but the copy was lost after his murder at Julamerk. Khanykow also took a cast of it (in 1852), which was destroyed on its way home, and a squeeze in 18.53. Five hours from the pass, according to Rawlinson, "there is a precisely similar pillar, denominated also Keli-Shín, upon the summit of the second range, which overlooks the town and district of Sídek. This also is engraved with a long Cuneiform inscription; and as it is said to be in far better preservation than the one at Ushmeï, it would be very desirable to cxamine and copy it." The inscription, which is about five miles eastward of Rowendiz, was subsequently (in 1853) visited by Dr. H. Lobdell, an American missionary (Z.D.M.G. vol. viii. p. 602). Rawlinson also discovered two similar pillars at lieliSipan, on the Little Zab, but without inseriptions. Brossct was the first to point out that all these inseriptions were in the Vannic character, and probably recorded the military expeditions of the Vamnic kings (Mélanges asiatiques de l'Acad. de S. Pétersbourg, vols. iii. and vi.).

While Mr. Rassam was adding to our knowledge of the inscriptions contained in the Vamic kingdom itself, $M$. Stanislas Guyard had made an important discovery, which was
announced in the Journal Asiatique, May-June, 1880. The occurrence of the ideograph denoting 'a tablet' in a long phrase, which is repeated at the end of a good many of the inseriptions, had led him to conclude that the phase in question represented the imprecatory formula found in the same plase in Assyrian as well as Akhæmenian Persian inscriptions. An examination of the words contained in the phrase soon showed that his conjecture was right. An important assistance was thus obtained towards the decipherment of the inscriptions, since the length of the passage not only added a number of new words to the list of those whose meaning was ahready known, but also helped considerably towards the recoustruction of Vamnic grammar.

I had myself been working for some years at the inscriptions, and the method which had enabled M. Guyard to make his discovery had already revealed to me the meaning of several other phrases occurring in them. With the help derived from these I was able to determine the signification of the words which M. Guyard did not attempt to explain in the phrase whose general sense he had discovered. The ideographs so freely employed by the Vamnic scribes had already showed me that not only the characters but the style and phrascology of the inscriptions were those of the Assyrian texts of the timie of Assur-natsir-pal and Shalmaneser II. I believe, therefore, that I have at last solved the problem of the Vannic inscriptions and succeeded in deciphering them, thereby compiling both a grammar and a vocabulary of the language in which they are written. Owing to the number of texts, their close adherence to their Assyrian models, and the plentiful use of ideographs, it will be found that the passages and words which still resist translation are but few, and that in some instances their obscurity really results from the untrustworthiness of the copies of them which we possess.

I shall first deal with the geography, history and theology of the Vannic population so far as they can be recovered from the Assyrian or the native inscriptions, and then give an account of the mode of writing and a sort of grammaire raisonnée of the language, each grammatical form being proved
by a comparison of the texts. Next will follow an analysis and translation of the inscriptions, arranged chronologically and furnished with notes, an index of all the words and proper names contained in them concluding the memoir.

## § I. 1. The Geography of the Inscriptions.

The sites on which the Vannic inscriptions have been discovered sufficiently indicate the locality to which those who composed them belonged. They are mostly found either in the city of Van itself or in its immediate neighbourhood. It is evident, therefore, that the kings who caused them to be engraved had their capital at that city, and that their power extended over the country which forms the shores of Lake Van. Their kingdom lay mostly on the eastern and northeastern shores of the lake, few monumental remains of Varmic power existing on the southern shore, while the monuments that are met with on the western side are rather records of invasion or temporary conquest than of permanent occupation. The same must also be said of the monuments northward of Mount Ararat and the Araxes, and in the neighbourhood of Lake Erivan. Roughly speaking, therefore, the region now represented by the vilayet of Van, or rather the district bordered on the north by the Ala-Dagh, on the east by the Kotûr range, and on the south by the Erdesh Dagh, formed the kingdom of the early Vannic monarchs. The country is called Biaina or Biana in the inscriptions, and the name given to its capital, the present Van, is Dhuspās or Dhuspaes. The latter is evidently the $\Theta \omega \sigma \pi i a$ of Ptolemy (v. 13, 19; viii. 19, 12), the Tosp of Moses of Khorene, which we are told was the older name of Van. Hence the lake is called Thôspitis in Ptolemy (v. 13, ז), and Thôpitis in Strabo (xi. p. 529 ).

The name Biaina is not met with in the Assyrian inscriptions. On the other hand, the Assyrian kings frequently mention the Mannai, the Minni of the Old Testament (Jer. li.
27), the Minyas of Nicolaus Damascenus, ${ }^{1}$ and the resemblance of this name to that of Van has led to the common assumption by Assyrian scholars that the Mannai of the Assyrian momnments were the inhabitants of the Biaina of the Vannic texts. But a careful examination of the passages in which the Mannai are mentioned shows that this assumption is erroneous. Shalmaneser II. (Lay. Inscr. 96, 161-173), in deseribing his marel northward from Khupuscia, which adjoined the northern frontier of Assyria, and represented the classical Corduena, states that he successively traversed the countries of Khupuscia, the Madakhirai, the Mannai with their capital city Zirtu or Izirtu, Kharru and Surdira, aud finally Parśuas. Now Parśuas occupied the south-western shores of Lako Urumiyeh, from which, therefore, the territory of the Mannai could not have been far distant. Samas-Rimmon, again (W.A.I. i. 30 ; ii. $37-40$ ), in describing the same line of marel, makes the distriets successively traversed those of the Khupuscians, the Śumbians, the Maunians (written Manai), and the Parśuans. Here the place of the Madakhirai is taken by the Śunbai, and the Parśuai are placed next to the Manai. Finally, Sargon (Botta, 145, 24), starting from the land of the Zimui, or Kurdistan, passed first through Ellip, in the neighbourhood of Hamadan, and then, turniug northward, through BitKhamban, Parśua, the Mannai, Urardhu (Armenia), and the Kaskai or Kolkhians. In the time of Sargon, therefore, the Maunai still adjoined the Parśuai, while their northern frontier touched that of the Urardhians, who, as we know from the Assyrian records, had been extending their territory in that direction. It is clear that the Mannai had nothing to cio with Lake Van, but on the contrary lived on the southwestern shore of Lake Urumiyeh. As we shall see, 'the land of Mana,' mentioned in the Vannic inscriptions as overrun by Menuas, Argistis, and Sarduris II., is placed in the same loeality.

[^140]The name under which the kingdom of the Vannic princes really goes in the Assyrian inscriptions is that of Urardhu or Ararat. It is first mentioned by Assur-natsir-pal (Layard's Inscr. i. 9), who describes his conquests as extending "from the sources of the Supnat" or Sebbene-Su "to the country of Urardhu." From his annals, however, it would appear that he never actually penetrated as far as the latter district, unless Arardu (W.A.I. i. 18, 61) is the same name as Urardhu. After leaving Kirruru, which bordered on Khupuscia, Assur-natsir-pal entered Kirkhi of Bitanu, and there captured "the cities of Khataru, Nistun, Irbid, Mitcia, Arzania (Arzanionum oppidum in Arzanene), Tela and Khalua, cities dependent on the powerful countries of Uśu, Arua and Arardu." As the sources of the Supnat, where Assur-natsir-pal imitated his predecessors Tiglath-Pileser I. and Tiglath-Adar by erecting an image of himself, are made the western terminus of his conquests in the north, we may gather that the land of Urardhu began on the northern side of Mount Kasiyari or Niphates and eastward of Mush. Shalmaneser II., however, the son and successor of Assur-natsir-pal, seems to lave been the first Assyrian king who actually came into contact with Urardhu. He tells us on the Black Obelisk (l. 44) that in his third year (b.c. 8566), after quitting the Hittite city of Pethor, now represented by Tash-atân, a few miles south of Jerablûs or Carchemish, he overran Alzu in the neighbourhood of Palu, then Dayaeni and Nimme, and finally reached Arzascun, "the royal city of Arrame of the land of the Urardhians." He next made his way to Gozan and thon to Khupuscia. The inscription of Kurkh ( 20 miles from Diarbekir) informs us that Shalmaneser had already, in the year of his accession, come into conflict with Arrame (or Arame, as the name is there written). After leaving "the city of Khupuscia" in the land of Nahri, he had attacked Śugunia, a stronghold of Arame, "king of the Urardhians," and had then marched to "the sea of the land of Nahri" or Lake Van, where a figure of himself and a Cuneiform inscription were engraved on the rocks. I'lee campaign of the third year is narrated at greater length than in the brief annals
of the Obelisk. We learn that the Assyrian king set out from Tul-Barsip, the Barsampsê of Ptolemy, probably the modern Kala'at en-Nejim, and after passing through the districts of Śsugab or Śutakh and Bit-Zamâni and the mountains of Zimdanu and Mirkhisu, had found his way to Isua and Enzite, the Anzitene of classical geography, both of which are included in the Alzu of the Black Obelisk, and lad there set up an image of himself and an inscription in the city of Saluru. He then crossed tho river Arzania, the classical Arsanias (now the Murad Su), overran Sukleme with its capital Vastal, and passing through Dayâni found himself before Arzascu, " the royal city of Arrame of the Urardhians." Arzascu was destroyed ; an image and inscription set up among the momentains of Eritia, the cities of Aramale and Zanziuna threatened, and the army then marehed down to the shores of "tho sea of Nahri" or Lake Van. Here a likeness of the Assyrian king, accompanied by a Cuneiform inscription, was engraved, and the Assyrian forces moved eastward into the territories of Asahu or Śuha, also called Aśu, king of Gezan, from whom Shalnaneser received by way of peaceofferings, "horses, oxen, sheep, goats, and seven camels with two humps." Here again, in the chief temple of the capital of Gozan, an image and inscription of Shalmaneser were set up, and the Assyrians passed into the land of Nahri, then governed by Cacia or Caci, "king of the city of Khupuscia." It was only subsequently that the Assyrians learned to call the whole district Khupuscia in place of the vague title of the land of Nahri or "Rivers."

In his fifteenth year, Shalmaneser was again in the same ragions (Layard's Inscr. 47, pp. 28-33). After setting up an image of himself at "the sources of the Tigris," he marched into the lowlands of the country of Dhunibun, and there destroyed " the cities of Arame of the Urardhians as far as the sources of the Euphrates." Here Asia, king of Dayani, gave him tribute, and Shalmaneser erected a statue of himself in the latter's capital. Dhunibun must accordingly have been on the western side of Lake Van, the sources of the Euphrates being those of the river of Mush (the Kara Su).

Twelve years later Dayan-Assur was sent against Śeduri of Urardhu, whose forces he encountered after crossing the river Arsanias (Bl. Ob. 144).

It is possible that the name of the Vannic capital Dhuspā(s) is to be found in that of Dhuruspa, the city in which Sarduri or Sardaurri king of Urardhu was besieged by Tiglath-Pileser II., after he had been defeated in Cistan and Khalpi, districts of Kummukh or Komagênê, and compelled to fly for his life to the " bridge of the Euphrates, the boundary of his kingdom." At this time, however, the kingdom of Urardhu extended much further to the west than in the older days of Shalmaneser II.

It is strange that no mention is made of Urardhu (or Arardu) in the Vannic texts. It is certainly not a Semitic word, and the explanation of it from the Zend hara-haraithi is shattered by the fact that the name occurs in Assyrian inscriptions long before the time when an Aryan, much less an Iranian, population made its way so far to the west. The proper names contained in the Assyrian records show that the westward extension of the Aryan race in Media Atropatenc and Armenia was subsequent to the fall of the Assyrian power. An ancient bilingual tablet (W.A.I., ii. 48. 13) makes Urdhu the equivalent of pronunciation is given as tilla, the latter, as Sir H. Rawlinson long ago pointed out, being probably a Senitic loanword, and meaning 'the highlands' (from $\boldsymbol{\pi} \boldsymbol{H}$ ). usually signifies the land of Accad or northern Babylonia, but since it is not glossed in this passage and stands, moreover, betwcen Akharru or Palestine, and Kutu or Kurdistan, it would seem that it is here cmployed to denote Armenia. Urardhu, thercfore, contracted into Urdhu, wonld have been the designation of the highlands of Armenia among the Babylonians as early as the 16 th or 17 th century 13.c. Possibly it was then applied only to the mountainous country immediately to the north of Assyria, and was not extended to the districts further north until the Assyrians had become better acquainted with this region, and the native names of its sevcral states. But it is also quite possible that the name
belonged from the first to the great momatain ridge still called Ararat, and that the reason of its non-appearance in the Tamic texts is, that it was properly the name of the mountain only, though applied to the neighbouring district by the Babylonians and Assyrians. According to the Biblical account of the Deluge, the ark rested on one of the mountains of A rarat, and " a widespread Eastem tradition" makes Gebel Gudi the mountain in question. Gudi seems the same word as the Accadian Guti or Gutium, Semitized into Kutu, which Sir H. Rawlinson has happily identified with the Goyyim of Genesis xiv. Guti denoted Kurdistan, and the mountain of Nizir, the peak on which the Chaldean legend of the Flood makes the ship of Sisuthrus to rest, is placed in Guti by a geographical tablet (W.A.I. ii. 51, 21). Assur-natsirpal (IV.A.I. i. 20, 33 sq.), after leaving Kalzu or Shamamek (to the south-west of Arbela), marched to the town of Babite, and thence to the land of Nizir, called LuluKinaba, he tells us, by its inhabitants. This fixes the position of Nizir among the mountains of Pir Mam, a little to the south of Rowandiz, and suggests the possibility that Rowandiz itself was the spot where Babylonian tradition localized the descent from the ark. ${ }^{1}$ It is somewhat remarkable that "the widespread land of Kute" is transfcrred to another part of the world by Shalmaneser 1I. in the inscription of the Balawát Gates. He therc states (iii. 2, 3) that he ravaged the land of Kute, "from the city of Arzascun to the country of Gozan, and from Gozan to Khupuscia," the context indicating that this was the tract of country over which the power and influence of Aramu the Urardhian king extended. Here, therefore, the position of Kuti is moved from the mountains of eastern Kurdistan to the shores of Lake Van, to the very locality, in fact, in which the Hebrew tradition placed the descent from the ark, and in which Gebel Gudi is situated. The old Babylonian bilingual tablet which makes mention of Urdhu, places it, as I have already said, between Palestine and Kutu, the latter country

[^141]being ideographically represented in the Accadian column by $\rightarrow Y_{Y Y Y} \equiv \boldsymbol{Y} \longrightarrow \boldsymbol{Y} \boldsymbol{Y}$ ' the fortress of the valley of Anu.' 'The valley of Anu' usually denotes one of the quarters of Babylon, and I can explain the name only by supposing that the practice of garrisoning Babylon with Kurdish troops from Gutium, which we find was the case in the time of Nabonidus, was of long standing.

In Jer. li. 27 Ararat, or Urardhu, is called upon to destroy Babylon, along with the Minni or Mannai, the kingdom of Ashkenaz and the Medes. As the Medes were to the southeast of the Mannai, with their centre at Hamadan, Ashkenaz, which intervened between them, will have occupied much the same position as the modern Ardelan. The country is called Asguza by Esar-haddon, ${ }^{1}$ which suggests that the Biblical

Just as Urardhu is not found in the Vannic inscriptions, so Biaina, the native name of the Vannic kingdom, is not found in the Assyrian inscriptions. The name of Biaina, however, is still preserved. It is plainly the Buana of Ptolemy (Geog. v. 13), the modern Van, called Iban by Kedrenos (Hist. ii. p. 774). It is curious that while Dhuspâs, the ancient name of the capital city, has become the name of the province, the old name of the province is now confined to the city.

Though Biaina is not found on the Assyrian monuments, there is a name mentioned upon them which may have been based upon it. This is Bitanu or Bitan, written $Z Y Y Y$ YY Bitâni, CexyYY YY Battâni, and EYYYY YY Bit-ani (with a manifest play on the Assyrian bit-Ani 'the house of Anu'). Assur-natsir-pal makes mat nirib sa bitani 'the lowlands ${ }^{2}$ of Bitani' synonymous with mat Urardhi or A rarat (Lay. Inser. vi. 24, 5, and W.A.I. i. 23, $129 ; 23,122$ ), from which we may infer that Bitanu denoted the district in the vicinity of Lake Van. In W.A.I. i. 20, 13, he further speaks of Urume sa bitani sa sarrani sa sade Nairi 'Urume of Bitani (and) of

[^142]the kings of the momntains of Nahri,' at a time when he was in the neighbourhood of Amida or Diarbekir. As the Urumayans were employed as soldiers by the Hittites in the age of Ticrath-Pileser I. (IV.A.I. i. 10, 101), the district they inhabited could not have been far from the Hittite frontier ind the region north of Edessa (Urfah). Elsewhere (W.A.I. i. $18,59 ; 22,112)$ Kirkhi is described as being 'of Bitani,' and (in W.A.I. i. 25, 97) Kirkhi is stated to be 'in front of the land of the Hittites,' and eastward of Kummukh or Komagênê. Zamua or Mazamua is also said to be 'of Bitani' (Black Ob. 50, and Balanat Gates, ii. 2), Lake Van itself being called 'the sea of Zamua of Bitani' (Bal. Gates, ii. 2). The name of the country was properly Mazamua, and its capital city, also called Mazamua, is mentioned in geographical lists (W.A.I. ii. $53,2,4 ; 52,2,7$ ) among other places on the Armenian side of the Taurus range. The shortened form Zamua was distinguished by the addition of the words 'of Bitani' from another Zamua which lay among the mountains of eastern Kurdistan between Sulamaniyeh and the Shirwan, and against which Assur-natsir-pal made more than one campaign. The Armenian Zamua adjoined, it is clear, the southern shore of Lake Van. Shalmaneser II. (IV.A.I. iii. $8,2,76$ ), when making his way to the country of Mazamua, descended into the lowlands of Buna'iz, and there encountered the people of Idu and their kings, who avoided the Assyrian army by taking to their boats and sailing away over Lake Van. As they were pursued by Shalmaneser, and a battle was fought "in the middle of the sea," it would seem that the fugitives had made for the island of Aghtamar. Now it is in this island that an inscription of the Vannic king Menuas has been found (No. xxix. B.), which mentions the erection of an inscription in the land of Erinuis or Aidus, and in the city of Akhiunikas, which seems to be the modern Akhavank or Akhyavansh. ${ }^{1}$

[^143]However this may be, it is plain that Bitanu was the name given by the Assyrians to the country which stretched away from the southern shore of Lake Van to Diarbekir and the eastern bank of the Euphrates, and when Assur-natsir-pal makes it synonymous with Urardhu, it is of the southern part of Urardhu that he is thinking. It seems to me possible that Bitanu may represent Biaina, assimilated by a slight change to tivo Assyrian words which had the meaning of "house of Anu," and that its application was extended to denote not only Urardhu but the districts south of Urardhu as well. But it is also possible that the Buna'iz of the Kurkh inscription may really be Biaina. At all events, it seems necessary to correct ought to mention that the word Bitanu is not preceded by the determinative prefix of country, but this seems due to its assimilation to Bit Ani.

We know from the Assyrian inscriptions that the alliances of the kings of Urardhu in the time of Tiglath-Pileser II. extended as far west as Milid, the modern Malatiyeh, and the Vannic monuments tell us that their canpaigns had previously carried them almost up to the gates of this city. Menuas lias left an inscription (No. xxxiii.) cut in the rock of the castlehill at Palu on the Euphrates, in which he states that after passing through the countries of Gûpâ(s) and the Hittites, he had erected a monument at the city of Khuzân (the modern Khozan), and in the land of Puteria (perlaps Palu), in order to record his victory over the king of Melidhîa or Malatiyeh. Gûpâ(s) I would identify with " the land of Cuppu," through which Assur-natsir-pal passed, on his way from Khuzirina, a city of Kummukh or Komagene, on the eastern bank of the Euphrates, but not far from Milid. After traversing Cuppu, he found himself in 'the middle of the cities of the countries of A'assa and Kirklii (W.A.l.i. 25.97). ${ }^{1}$ Another inscription

[^144]has been left by Sarduris II. on the eliffs near Isoglu, on the eastern side of the Euphrates, and in the elose neighbourhood of Malativeh. In this the Vannic king deseribes his conquest of Melidliâ or Milid, as well as of the distriets dependent on it. Argistis, also, recounting his eonquests on the rocks of Van, states that after ravaging the countries of the Hittites (Khate) and of Niriba, he carried away the spoils of Melidha or Melid. He then quitted the town of Pitî . . . or Pilai . . ., a mutilated name which may be identical with that of Puteria. Niriba is plainly the Nirib or 'lowlands' of the Assyrians, who, as we have seen, made it a province of Bitani, and included Kirkhi in it. I fancy that it is here used of the plain of Diarbekir, which had aequired an Assyrian name after the Assyrian oecupation of the country by Shalmaneser I. (b.c. 1300). Sarduris II. makes Kar-nisi, 'the town of the men,' a eity in the neighbourhood of Melid (No. l.), and tho name of Kar-nisi shows that it must have been an Assyrian colony or garrison. According to Assur-natsir-pal (W.A.I. i. 21, iii. 16) Nirbu was in the mountains of Kasiyari or Masius, at the foot of Mount Ukhira, and adjoined Nahri on the one side and the Supnat on the other. Among its eities were Tuskha, Cinabu, and Tilu, perhaps the modern Tilleh at the junction of the Sert river with the Tigris, besides Mariru. The Khâte of the Vannie texts are the Hittites, Khâte exactly corresponding to the Assyrian Khatti, the Egyptian Kheta, and the Hebrew תㄲ. We gather from the Vamic inscriptions that their territory was close to that of Melid, though on the eastern rather than on the western bank of the Euphrates, which would agree with the position assigned to the northern part of the Hittite region by the Assyrian monuments. Besides the passages already quoted, there is another notice of the Khâte in one of the inscriptions of Menuas (No. xxxii.). Here "the territory of the

[^145]Hittites" is mentioned in the line preceding that in which the defeat of the soldiers of the land of Alzu is recorded, though unfortunately the mutilation of the text prevents us from determining the exact relation between the two lines. The geographical position of Alzu is known from the Assyrian records. Tiglath-Pileser I. states (W.A.I. i. 9, i, 62 sq.) that at the beginning of his reign "twenty thousand Moskhians and their five kings, who for 50 years had occupied the lands of Alzu and Purukuzzu which owed tribute to Assyria took possession of Komagênê." From this we may infer that Alzu was not far distant from Komarênê, which formed the northern frontier of the Hittites. Alzu is again mentioned by Shalmaneser II. on the Black Obelisk. In his third year, he tells us, he quitted the Hittite city of Pethor (Pitru), now Tash Atân, " on the further side of the Euphrates and on the river Sajur," then descended into the lowlands (Nirbi) of Alzu, and then marched against Dayaeni, Nimme and Urardhu. More details of the campaign are given in the Kurkh inscription, as has been mentioned above. There we learn that the Assyrian army made its way from Pethor through the land of Sugab or Sutakh into the city of BitZamâni ; then climbed over the mountains of Zimdânu and Mirkliśs (portions of Mons Masius), and so descended into Enzite and Isua, after which they crossed the Arsanias, ravaged the land of Sukhme and then found themselves in Dayaeni. It is plain that Enzite must form part of Alzu, which Tiglath-Pileser I. places to the south of the Murad. Alzu (or Alzis) is coupled with the land of the Hittites by Menuas (No. xxxii. 7), and at Palu the latter king either includes Palu in the Hittite territory, or makes it the northern frontier of the latter (xxxiii. 11). He also seems to imply that Malatiyeh lay within the Hittite dominion. This is distinctly stated by Argistis (xxxviii. 15, 16), according to whom the Hittites adjoined the western borders of Niriba (xxxviii. 12, 13). Consequently, if Kiepert is right in placing the Auzêta of Ptolemy (the capital of Anzitênê) at the sources of the Sebbeneh Su (or Supnat), Alzu will be the district between Palu and Khini, Niriba will lie to the south
of it, and the Hittites of the Vamic texts will extend from Diarbekir to Malatiyeh, and from Kharput southward, that is to say, betwecn parallels $38 \frac{1}{3}$ and 40 of longitude, and $38 \frac{1}{3}$ and 37 of latitude.

The Vannic kings seem rarcly to have followed the road to the west which leads by Bitlis and Mush; at all cvents, the only memorials of them found on this route are the two fragmentary texts of Mcnuas in the churchyard of Irmerd, of which Capt. Clayton has taken squeezcs. They preferred to march along the more northern and safer highway. Their dominion extended as far as Arclish and Patnotz, on the north side of Lake Yan, and at times much further. Their western frontier-city in this direction, in the time of Shalmaneser II., was Arzascu. This touched upon the kingdom of Diaus and his deseendants, in which I would recognize the Dayaeni of the Assyrian texts, the accusative of Diaus being Diyaveni. The kingdom lay upon the Murad Chai, in the neighbourhood of Mclasgerd, which may have been built by Menuas to secure his conquest of the country (see No. xxx.). One of its cities, Zuais, is now represented by the village of Yazlu-tash. As the district commanded the high-road to the north-west, its possession enabled the king of Van to occupy the whole country along the banks of the Euphrates as far to the west as Hassan Kala'a (see No. xxxv.) and Erzerûm, where the mutilated inscription now in M. Lenormant's possession was found.

In the north the Vannic kings penetrated beyond the Araxes, as far as Lake Erivan. Inscriptions of Menuas and Argistis have been discovered near the ancient city of Armavir, the Armauria of Ptolemy, and at Kalinsha, north-west of Erivan (No. xlvii.). If the inscription of Alitschalu (No. Iv.) belongs to a king of Van, it would show that his arms had reached the lake itself. The district in which Armavir stood was known as Etius, the whole country north of the Araxes as far as Erivan going under the name of Etiunis, "the land belonging to Etius" (see xxxiv. 2). From the short inscription engraved by a certain king, "Śarduris the son of Rapis," near the village of Atamkhan on the south-western bank of Lake Erivan (No. liii.), it would appear that the
inhabitants of southern Georgia had adopted the Vannic syllabary, and that their language differed only very slightly from that used at Van.

Towards the east, the Vannic monarchs made several expeditions. From xlix. 4 sq. it appears that to the south-east of Etius lay Babilus, a name which Dr. Hincks very naturally supposed to represent Babylonia. The district must have been in the neighbourhood of the modern Khoi, and I would identify the name with that of Babyrsa, which Strabo places near Artaxata. South of Babilus came the land of Mana, the Mannai of the Assyrian texts and the Minni of the Old Testament, with whom the kings of Van were constantly at war. The western frontier of their territory adjoined the kingdom of Van, from which it would have been divided by the range of the Kotûr. The capital, Sisidikhadiris (xliii. 39), must be the Izirtu of the Assyrian inscriptions. South of Mana was Barsuas, the Barśuas or Parśsuas of the Assyrian inscriptions, on the south-western shore of Lake Urumiyeh, and adjoining Bustus, the Bustu of the Black Obelisk, line 186 (see No. xxxix. 10, 12, notes). Here, too, was the city of Sararas or Satiraraus, called Sitivarya on the Black Obelisk (184). 'The Vannic kings seem never to have gone further south than Bustus; had they done so, they would have followed the march of Shalmaneser II., who, after leaving Bustus, entered the mountains of the Zinri or Kurds, and then descended upon Khalvan or Holvan. It was here, at Sir-Pul, that Sir H. Rawlinson found and copied the inscription of Kannubanini, king of the Lulubini. The name of the Zimri is, I think, prescrved in that of the moun-tain-range of Azmir. East of them came the heterogeneous tribes known to the Assyrians as Madai or Medes. South of the latter was the land of Ellip, which included Hamadan and Behistun. Behistun (Bagistana) is, I belicve, referred to by Sargon as Bit-ili 'the house of the gods' (Botta, ii. 16), while Mount Elwend is Aranzi (Botta, v. 17), the Orontes of classical geographers, which the Persians Aryanized as Urwandha, whence the modern name. Long before the days of Kyros, Ellip had become Median.

The localization of the ehief districts mentioned in the Vamic texts enables us to assign approximately their true places to such minor localities as the land of Baruatainis (xlix. 17), north of Babilus, or the different eomntries named Babas, one of which was in the neighbourhood of Barśuas and Bustus. Similarly some idea may be gained of the towns elose to V am itself from the list of gods in the great inscription of MeherKapussi. The most complete list of the Vamic towns, however, which we possess is contained in the annals of Tirlath-Pileser II. The copy given in Layard's Inscriptions, $18,20, s q$., is, unfortunately, not always to be trusted (the charaters in the middle of each line being placed a line too low), and I have been unable to find the squeeze from which it was made in the British Museum. Nevertheless, it is on the whole an important and trustworthy document. The text runs thus: "Sardaurri the Urardhian against me revolted, and with Matihil (son of Agus) made eonspiracy: in the neighbourhood of Kastan and Khalpi distriets of the city of Kummukh his destruetion I wrought, and all his camp I eaptured. The terror of $m y$ servants he feared, and to save his life his own fields he devastated. In the eity of Dhuruspa, his eity, I besieged him, and his many soldiers in front of his great gates I slew. An inage of my majesty I made and before the city of Dhuruspa I raised. For (70) casbu the ground in the land of Urardhu utterly from above to the botrom I ravaged. I marched and had no opponent. The land of Ulluba to its whole extent, the eities of Kastirru, Pariśu, Tasukha, Mandhu . . ., and Sarduarri to the city of Diru; the city of Parisu, the eity of Babutta, the city of Lusia, the eity of Bisia (and the eity of) Ulla (?) to the possession of the eity Sikipru (and) the eity of the Asurdayans of the country of Assyria I turned. In the midst of Ulluba the springs of the land of Urardhu . . . I took, and to the frontier a prefect besides I appointed. A city I built: the city 'Assur-exists' I ealled its name. My prefeets, the guard of the cities Usurnu, Uśurra, Enu, Śaśśs, Lup . . . , and Lukia, to the mountain, in addition to the chief musieian, I brought. The eities of Kuta, Urra, Arana, Taba and Vallia, as far as
upon the river Euphrates, the frontier of the city of Kummukh, the cities Kili . . ir, Egeda, and Diua, the sons of the cities Abbiśśa, Klıarbiśinna, and Taśa of the land of Enzi, the cities Ilganu and Benzu, the springs of the land of Urardhu (even) the river Kallab and the river Sukur . . ., to the frontier of Assyria I turned." Ilganu or Anganu may be the A lganis of v. 18. The city of Śarduarri must have been built by a Śarduris, while that of the Asurdayans seems to have owed its foundation to the Assyrian king Assur-dayan, whose wars with Argistis will be noticed further on. The Vannic king's name is written Śardaurri, Śarduarri, Śaraduarri, and Śarduri by Tiglath-Pileser.

## § I. 2. The History of the Inscriptions.

It is now time to turn to the question of the age to which we must assign the inscriptions of Van. Dr. Mordtnann believed that the oldest of them does not go further back than about b.c. 700 , but I think I can show that Mr. George Smith was more correct in placing the line of kings whose monuments we possess between the Assyrian kings Shalmaneser II. and Tiglath-Pileser II.

In the first place there is the striking resemblance between the forms of the Vannic characters, the mode in which they are used, and the style of the inscriptions on the one side, and the writing and style of the texts of Assur-natsir-pal and Shalmaneser II. on the other. M. Lenormant spcaks with truth of "la frappante analogie du style des inscriptions de Yan rédigées en assyricn avec celui dcs textes epigrapliques d'Assur-nasir-pal et de Salmanu-asir IV.; cette analogic est telle qu'elle ne peut manquer de révéler un bien étroit voisinage de dates." The use madc of ideographs and, as we shall sec, the phraseology of the inscriptions, are alike exactly modcllcd after the inscriptions of Shalmaneser II. and his father, not of the older or later Assyrian kings. Palæographically and philologically, thercfore, it is to the period of Shahmaneser II. and to no other that we must refer the date of the introduction of the cuneiform syllabary into Armenia.

And the fact that the two oldest inscriptions are composed, not in Vannic, but in Assyrian, shows that they were coeval with the date in question. There can be no older inseriptions which remain unknown to us.

Then, secondly, the amals of Shalmaneser II. supply a very good reason why it was in his time that the Assyrian mode of writing made its way into the kingdom of Urardhu. It was now for the first time that the Assyrians came into contact with the Vamic monarchy, while the king whose campaigns caused them to do so was in the habit of carving cuneiform inscriptions on the rocks of the northern districts through which he passed, and of setting them up in the towns which he occupied. We lappen to possess one of these inscriptions, that of Kurkh, and the earlier Vamic texts are closely modelled after it in both writing and style.

But the contents of the Vannic inscriptions themselves afford the best evidence of the period to which we must refer them. The kingdom of Milid or Malatiyelı was overthrown by Sargon in b.c. 712, the city itself destroyed, its last king Tarkhu-nazi carried captive to Assyria with 5000 of his subjects, and an Assyrian governor placed over the district, with his capital at Tul-Garimmi. Tarkhu-nazi's predecessor had been Śulumal, who had been one of the allies of Sarduris, king of Urardhu, against Tiglath-Pileser II. in b.c. 743, and appears as one of the tributaries of Assyria in b.c. 732. The Assyrian monuments give us no further information about Milid and its rulers till we get back to the reign of Shalmaneser II., when we find that (in b.c. 85年) it was under the sway of Lalli. On the other hand, as we have seen, Milid and its kings are not unfrequently mentioned in the Vamnic texts. In fact, the latter furnish us with a complete list of Milidian kings from the time of Menuas to that of Sarduris II. The contemporary of Menuas was Śuda(?)ni(?)zâuada (No. xxxiii. 15) ; the contemporary of Argistis Khilaruadas I., son of Tuates or Tualas (xxxviii. 6) ; the contemporary of Sarduris II. Khilaruadas II., son of Sakhus (1. 2). These princes must have reigned before the destruction of the kingdom of Milid in b.c. 712 , and as none of the names agree
with those of the two last kings, they must, further, have preceded them. Sarduris II., therefore, must have rendered Khilaruadas tributary before the year b.c. 743.

If we give an average of twelve years to the reigns of the five Milidian sovereigns, we shall have b.c. 810 as the approximate age of Menuas. The successful campaign of Sarduris against Milid would well account for the appearancé of the latter shortly afterwards among the allies of the Urardhian monarch.

The mention of the Hittites in the Vamic inscriptions bears the same testimony as the mention of Milid. The Hittite power was destroyed by Sargon, who took Carchemish, the Hittite capital, in B.c. 717, and made it the seat of an Assyrian Satrap. When, therefore, we find the Hittites named in the Vannic records, we are justified in inferring that the latter are earlier than the reign of Sargon. For a similar reason, the mention of Assyria in the inscriptions of Argistis points to a period before the destruction of Nineveh.

I have thus far assumed our acquaintance with the names and succession of the Vannic kings who have left records of themselves. It so happens that (with one exception) they follow in regular order, the king of one series of inscriptions being the father of the king of another series. The earliest is Sarduris I., the son of Lutipri(s), to whom belong the two inscriptions in the Assyrian language already referred to. The other kings succeed in the following order :-

Ispuinis, the son of Śarduris I.
Menuas, the son of Ispuinis.
Argistis, the son of Menuas.
Sarduris II., the sou of Argistis.
If we may judge from the number of campaigns carried on by Argistis, his reign would have bcen one of considcrable length.

The list of kings thus begins and ends with a Sarduris. Now Sarduris was also the name of the two kings who begin and end the long period during which the Assyrian amals are silent about Urarthu and its rulers. In b.c. 833, DayanAssur, the gencral of Shalmaneser II., defeated Scduris or Śarduris of Urardhu, and in B.c. 743 it was again a Sarduri or

Sarduris who was king of Urardhu when war broke out between that country and Assyria. The Assyrian monnments record the name of no Urardhian sovereign during the intervening period. Since, as I have shown, everything points to the introduction of the cuneiform system of writing into Armenia in the time of Shahmaneser II., or immediately afterwards, we seem justified in identifying the first Sarduris of the Vamnic texts with the opponent of Shalmaneser. If this conclusion is correct, the number of reigns between him and the second Sarduris ought to bear a reasonable proportion to the length of time that elapsed between в.c. 833 and b.c. 743. This length of time amounts to just minety years. Supposing that Śarduris II. had momnted the throne a little before B.c. 743 , say in B.c. 745 , and that Śarduris I. had similarly acceded to the throne in 835 , we should have four reigns for ninety years. This would give the rather high average of twenty-two years for each reign. But it is more than probable that Sarduris II. had reigned for some time previously to his war with Tiglath-Pileser, since in this war Milid appears as a subject-ally, and its conquest, as we learn from one of the inscriptions of Śarduris, had been one of his own achievements. Moreover the reign of Argistis seems to have been a long one, while if we turn to Assyrian history we find that here, too, a period of eighty-seven years (from b.c. 913 to b.c. 825) is covered by only four reigns.

A more serious difficulty exists in the fact that S'arduris I. calls himself the son of Lutipri(s), whereas the king of Urardhu, against whom Shalmaneser had to contend in b.c. 8.57 and 845, was Arrame or Arame, and already in b.c. 833, only twelve years later, his antagonist was Śarduris. It is, however, quite possible that the reign of Lutipris had been a short one of less than twelve years; it is also quite possible that the name of Shalmaneser's opponent of b.c. 857 is wrongly repeated in B.C. 845 , when, it must be remembered, the Assyrian king himself did not take part in the war, and that Lutipri(s) ought to be substituted for Arrame. But I am more inclined to conjecture that S.Sarduris I. was the leader of a new dynasty; the ill-success of Arrame in his wars with
the Assyrians forming the occasion for his overthrow. At all events it must be noticed that Sarduris does not give his father Lutipri(s) the title of "king," and that the introduction of a foreign mode of writing into the country looks like one of those innovations which mark the rise of new dynasties in the East. The consolidation of the power of Darius Hystaspis was, we may remember, accompanied by the introduction of the cuneiform alphabet of Persia.

During one part of the ninety years to which I would assign the reigns of the Vannic monarchs, we learn from the Assyrian canon that there was fierce and persistent war between Urardhu and Assyria. From b.c. 781 to b.c. 774 Shalmaneser III. was engaged in an almost continuous struggle with the Urardhians, and, since in the last year the scene of the war had been shifted to the country of the Zinuri, it would seem with doubtful success. Two years later he was succeeded by Assur-danan or Assur-dan III. These wars ought to be mentioned in the Vannic inscriptions, if my view of their chronology is right. And such is actually the case. Argistis claims to have overcome " the soldiers of the country of Assyria" (Nos. xxxviii. and xxxix.), and this, too, either in the country of Bustus or on its borders. Now Bustus adjoined the Zimri of the Assyrian texts, so that we should probably be right in fixing the campaign in b.c. 774. If Argistis reigned for thirty years, and his son Śarduris II. came to the throne in B.c. 750 , the victories of Argistis would exactly coincide with the period when we know from the Assyrian Canon the struggle was going on between Urardluu and Assyria.

Judging from the analogy of other passages, the very name of the Assyrian king is given in xxxviii. 52. The gods of Van are said to have given the lands Har'sitani, " belonging to Harśitas," and the soldiers of Assyria to Argistis. I believe Harsitas to be an attempt to represent the name of the Assyrian king Assur-dan, the $s$ and $r$ of Assur being transposed. That the aspirate might bo sounded before initial a in Vannic pronunciation where it was omitted in Assyrian, is clear from the fact that the proper name which the Assyrians wrote Aza is written Haza in Vaunic (No. liv. 1). It may be objected,
however, that the name of Assyria is corrcetly written As-sur, from which it would appear that the Vannic peoplo knew how to pronounce it. But this inference is not justified. It is plain that $->y$ was used as an ideograph, adopted like other idcographs from the Assyrian syllabary, since it not only has no suffix attached to it, but does not even end in a vowel, as it ought to have done had it been a phonetically-written Vannic word. Instead of the stcreotypel Assur, we should have Assuri and Assurni. From the way, therefore, in which the word is written, we camot infer the way in which it was pronomiced. For anything we know, it might have been pronounecd Harśi, which, by the way, would supply the genitive ending required before the governing noun kurade 'soldicrs.' I should add that in B.c. 743 we find an Assur-dain-ani Assyrian governor of Mazamua, and therefore at no great distance from the kingdom of Van.

One question still remains to be answered. Why is it that the connected series of Vannic inscriptions, after continuing uninterruptedly for nearly a century, ends so abruptly with the reign of Sarduris II.? The answer, I think, will be found in the history of Assyria. With the foundation of the second Assyrian empire by Tiglath-Pileser II. (в.c. 745) the expansion of Vannic power in the warmer and more fertile regions of the south was checked, and its very existence rendered doubtful. The allies and vassals of the Vannic prince were one by one made tributaries of Assyria, and in b.c. 735 TiglathPileser besieged Śarduris himself in his capital, erected a monument of his victories just outside the city, and wasted the plain of Van for 450 miles. The blow inflicted on the country was one from which it would have taken long to recorer, and patriotism would have prevented its monarchs from continuing to engrave inscriptions, every letter of which reminded their subjects of the enemy who had erected a similar monument in the sight of Van itself. For many years to come, moreover, the Vannic kings had something else to think of than monumental records of their conquests. They had indeed no conquests to record. Urśa, the successor of

Sarduris, devoted himself to the formation of a confederacy against the growing empire of Assyria. In B.c. 716 he induced the Mannai to murder their king Aza, the son of Iranzu, to place a certain Bagdatti on the throne, and to unite with Mita of the Moschi, as well as with the 'libareni, Milid, Atuna, Karalla and many other kingdoms against Sargon. But the effort was unsuccessful: the confederates were crushed, and in 714 the army of Urśa was destroyed, 260 of the royal clan captured, and U rśa forced to take refuge in the mountains while his territories were wasted. Muzazir in the southern part of Urardhu was taken and burned, and its king Urzana compelled to seek safety in flight, while his wife and children, treasures and people, as well as the images of his gods Khaldi and Bagabartu, fell into the hands of the Assyrians. The fall of Muzazir and the eapture of his god Khaldi reduced Urśa to despair, and he committed suicide. His suceessor, Argistis II., was too weak to send aid to his ally Mutallu of Komagene, when his territory was annexed by the Assyrians in b.c. 708. Argistis II. was still reigning after the accession of Sennacherib in b.c. 705 , since he is mentioned in a despatch-tablet written to Sennacherib by Pakhir-Bel, the governor of Amida or Diarbekir, from whieh we learn that Butunnu, Kharda and the other cities in this part of Assyria liad to be carefully garrisoned up to the frontier of Dhuruspa itself. From this time forward we hear little more of Urardhu, though we know that it continued in a state of passive hostility to Assyria, and that accordingly the sons of Sennacherib fled to it for refuge after the murder of their father.

The son and suceessor of Argistis II. was Erimenas, as we are informed by the inseription on the bronze shields diseovered by Mr. Rassam. He must have been on the throne when the Kimmerians, driven from their old seats on the Sea of Azof, probably passed through the Armenian territory on their way to Khupuscia (not Khutnseia), where they were met by Esar-haddon about 1.c. 680, and foreed westward into Asia Minor. Erimenas was followed by his son Rusas, who erected the palace near Yan, the ruins of
which have been excarated by Mr. Rassam, and sent an embassy to Assur-bani-pal at Arbela, to ask for an alliance after the overthrow of 'Teumman by the Assyrian king. Later on in Assur-bani-pal's reign, another embassy arrived from Sar-dur or Sadur of Urardhu, "whose fathers had sent to the fathers" of the Assyrian monarch to make brotherhood, bearing with them presents and words of salutation. This Sarduris III. must have been the successor of Rusas, and it is clear that at least as late as b.c. $6 \not 00$ Van was still ruled by its old Urardhian kings, and not yet in the hands of the Aryans. But the invaders, who subsequently occupied the larger part of Armenia, and penetrated into the Caucasus under the name of the Iron or Ossetes, were close at hand.

Already in the time of Sargon, the usurper who seizes the throne of the Mannai after the murder of the legitimate prince bears the distinctively Iranian name of Bagdatti. It was the first sign of the coming change which was to transform the old kingdom of Urardhu into the Aryan land of Armenia. The Aryan conquest no doubt occupied a considerable length of time. In the time of Darius Hystaspis, one of the pretenders to the throne of Babylon is an Urardhian who bears the characteristic name of Khaldita or Khaldida "the dwelling of Khaldis." But the name Urardhu has degenerated into Crasdhu, and before the overthrow of the Persian Empire by Alexander the Vannic kingdom and language had become things of the past, and a new race was in possession of the mountains of Ararat. According to Strabo (xi. p. 771) it was the descendants of Hydarnes, one of the seven Persian conspirators against the Magian, who became kings of Armenia, and reigned there from the tinie of Darius Hystaspis to that of Alexander the Great. This tradition would make the Aryan occupation of Armenia coeval with the victory of Aryanism in Persia at the end of the sixth century b.c. On the other hand, the Armenian history of Moses of Khorene contains nothing that is trustworthy before the reign of Vahé, who fell in battle against the Greeks; and the fact that Van is the predecessor of Vahé not only shows that the Armenian
writers had no authentic records before the age of Alexander, but implies also that the foundation of Van as an Aryan town does not go back beyond that period. However, the Aryan name Tigranes must have been in use in western Armenia when Xenophon led the Ten Thousand through it, since in his romance of the Cyropodia he makes a prince of that name the son of a king of Armenia. Armenia, too, Urasdhu in the Babylonian text, was one of the provinces over which Darius claims sway (see Hdt. iii. 93), and Xerxes inscribed his name by the side of that of Argistis on the rock of Van.

If the people of Urardhu were not Aryans, it is plain that we must look for their existing kindred among the nearest non-Aryan population. This, as M. Lenormant perceived, is the Georgian. The advance of the Aryans from the southeast would naturally have pushed the old population northward, first beyond the barrier of the Araxes, then beyond the Kur. But the whole of the earlier population could not have been thus displaced ; some of it at least must have remained behind and become mixed with the conquerors. The mixture would be greater the nearer we approach Georgian territory. There is evidence that the Georgians once extended further south than they do at present, and it would be well worth investigating how far the Georgian physical type can be traced in the direction of Lake Van. The natives of Urardhu represented on the Balawât bronzes have a very peculiar type of face, almost a negro one in fact, and the Assyrian artists have endeavoured, however unskilfully, to bring out the contrast between themselves and the people of Van. The latter are further regpresented as wearing the same tunics and boots with pointed ends as the Hittites, while their heads are protected by helmets not unlike those of the Greeks, and they use small round shields, swords and spears.

It is impossible not to be struck with the general strnctural resemblance of the Vannic and Georgian languages. Both are inflectional, though neither Aryan nor Semitic, and the character of the flexion is similar in both. I have noticed, moreover, two or three roots which seem the same, e.g. par 'to take away.'

But any detailcd comparison of Vannic with Georgian, or with any of the Caucasian languages such as Ude or Abkhas, must be left to those who have spccially deroted themselves to their study; a mere examination of the grammar and vocabulary which is all that I can pretend to, leads to no trustworthy result. ${ }^{1}$

1 The first attempt that has been made to analyze the Georgian language according to the scientific method is to be found in an article by M. J. A. Gatteyrias in the Reene de Linguistique et de Philologie comparé (xiv.) for July, 1881, pp. 275-311. It is impossible uot to be struck by the resemblance of the results obtained by M. Gatteyrias to the grammatical facts of the Vannic inscriptions. "The sutfix which expresses relation," that is, the Vaunic genitivedative, is $i$ in the personal pronouns, as in Vamic stems in -i; Gatterrias believes it to be a demonstrative, entering into combiuation with other letters in i-man 'he, $i-g i, i-s i$ 'that,' like the 「annic $i$ in $i-n i$ 'this,' $i-u$ 'thus,' ie-s 'which.' Local nouns euding iu $a$ and $e$ insert vie before the suffix isa (e.g. Jordane-vie-sa' of the Jordan'), like Vannic local nouns which suffix - re after -na (e.g. Biaina-re). In MSS. other nouns take the semivowel (as tsa-vie-sa 'of the sky') just as in Vannic. As in Vannic, too, -is- is an adjectival suffix, as well as $-n(i)$-. M. Gatterrias shows that the Georgian sa is originally a local demonstrative, as it is in Tannic, while da forms adverbs of place as it does in Vannic. The Taunic ini-da 'here' is strictly analogous to the Georgian man-da 'there,' and sadux is 'there' in Vannic, 'where' in Georgian. The phonology is remarkably alike, so far as can be seen. Georgian posscsses the rowels $a, i, u, e$, and 0 (as does Vannic, if we make $\langle 0\rangle$, the semirowels $i e$, and vie, and the aspirated ho (Vannic ha). The first person of the rerb is formed by the suffix -bi, as in Vannic, while the 3rd pers. pl. contains, as Gatteyrias shows, the suffix $-m i$, as iu quareb-en 'ther lore,' $a r-i$-an 'ther are' (arie-dha is 'he was' in Vannic). In Vannic -ni marks the 3rd person both singular and plural. The nominative and accusative plural of Georgiau nouns terminates in -ni and (e)bi, which M. Gatteyrias shows must be analyzed into $-n-i$ and $e b-i, i$ alone marking the case. We may compare the Vannic eba-n-i 'countries' and ati-b-i 'thousands.' The suftix th is shown to have had originally the local sense of 'departure,' and then to have passed into a locative suffix. It is difficult not to compare the Tannic locative di, especially when we find that th is also found in rerbal forms like dae in Vannic, and that the suffixes atha, ath, eth, ith, iath, oth, and uth are traced back to $d a$. Shina or shi, which now forms the locative in Georgian, is the old word for 'house, which may be the same as the Vannic asi(s). The Tannic suftix $l i$ seems to be found in the Georgian adjectival ali, eli, ili, and uli, which show that a suffix $l i$ is attached to stems in $a, e, i$, and $u$. The pronoun of the 3rd person is identical with that of Vanmic-mes 'he,' mani 'him'-the 'demonstrative' case being men and $m(a) s$ 'to him'; eren misi 'his' is the Vannic mesi(s). In the Vannic ada 'and,' we find the origin of the Georgian copulative conjunction da. The only dialects allied to the Georgian, which are at present known are the Mingrelian-the nearest akin, of which Klaproth has published some phrases in the Journal Asiatique 1829, while Zagarelli has lately published some studies upon it; the Suanian, said to be full of toreign words; and the Lazian, spoken nearest the Black Sea, and more archaic in character than the Georgian. A grammar and rocabulary of it have been published br Rosen in the Abhandlungen der Berlin. Akademie, $18 \pm 3,1845$. The elements of Georgian grammar are giren in Brosset's Grammaire, 1831, the analysis of the rerb having been subsequently accomplished by Friedrich Müller, and a Dictionnaire géorgien-russe-français, by P. D. Tchubinof, appeared at St. Petersburg in 1840.

## § I. 3. Theology of the Inscriptions.

The Assyrian inscriptions tell us that Khaldi was the supreme deity of the Urardhian race, and there is hardly a Vannic inscription in which the name does not appear. But Khaldis was not only the supreme grod: he was also the father of other gods who were called "the Khaldians" after him, and there were, moreover, many Khaldi's belonging to different localities and worshipped by different tribes. Hence the kings invoke 'the Khaldi's' (Khaldi-ni dat. pl.) and 'Khaldians' (Khaldi$n i-n i$ ) as well as 'Khaldis' (Khaldi dat. sing.). The whole pantheon of Biainas is set before us in the long inscription of Mühür Kapussi, in which the two kings, Isbuinis and his son Menuas, prescribe the offerings to be made to the various deities of their faith. Here " the four Khaldi's of the house " are spoken of (1l. 12, 21), together with "the Khaldi's of the peoples," " the Khaldii's of the fortress " (ll. 17, 29), "the protecting Khaldi's" (ll. 17, 30) and the like. We may infer from this that the kingdom of Urardhu had once consisted of a number of small independent principalities, each with its special Khaldis, and that after their conquest and amalgamation these special Khaldi's were united into a national pantheon.

By the side of Khaldis stood the Air-rod Teisbas or Teisebas, whose name is once phonetically written (No. xx. 15), and the Sun-god, whose name seems to have been Ardinis (See No. 1. 39). These three formed a Trinity which stood apart by itself at the head of the pantheon.

The following is a list of the other gods arranged alpha-betically:-

Adarutas.
Adbinis.
Adias.
Airanis.
Aldutusinis.
Alus-Urulive-Sivali.
Arazas.
Ardhuharairus.

Ardis.
Arhas.
Arnis.
Arśimelas.
Artsibarldinis.
Auis or Avis (the water-god).
Ayas (the earth-god).
Babas.

Bartsias.
Deduainis.
Dhuranis.
Dhuspuas (god of Tosp).
Eliahas.
Elipris.
Erinas.
Hanapsas.
Harubainis.
Ipkharis.
Irmusinis.
Kilibanis.
Kueras.
Khalrainis.
Kharas.

Khudhuinis.
Nalainis.
Sebitus.
Selardis (the moon-god). Siniris.
Subas.
S. Sardis (the year-god ?).

Śilias.
Tsinuyardis.
Talapuras.
Uas (or Vas).
Uias (Vias).
Uninis.
Uras.
Ziuḳunis.

Besides these the great inscription of Meher-Kapussi enumerates various deities belonging to special countries and cities, a list of which will be found at the end of the commentary on the inscription, where the gods are classified according to the offerings presented to each. We learn from the same inscription that worship was also paid to 'the horsemen' or ministers of Khaldis and Teisbas, as well as to the dead who were under the protection of Khaldis. It is remarkable that no mention is made in this inscription of the goddess Śaris. In fact, except in the proper name Śar-duris, borne by three Vannic kings, she is only once alluded to (No. xxiv.). I am, therefore, inclined to believe that the goddess was not a native one, but was imported from Assyria along with the Assyrian syllabary. At any rate, it is worth notice that the first king who bears the name Sar-duris writes his inscriptions not only in the Assyrian characters, but also in the Assyrian language, and that Sar(is) looks very much like a modification of the Assyrian Istar. In Assyrian itself st may become ś, as in isacan for istacan. The name of the goddess is always written by means of the Assyrian ideograph $(->)-Y Y<Y$, except in liii. 2, a text which probably belongs not to the people of Van, but to a kindred tribe.

Originally it would seem the Urardhians had no goddesses, only gods.

The introduction of the Assyrian Istar into the country, however, introduced at the same time the old Babylonian myth of the death and resurrection of the Sun-god, whom Istar loved. As I pointed out in the Academy, Jan. 28th, 1882 (p. 63), the legend of $\hat{\mathrm{Er}}$, the son of Armenios, with which Plato ends his Republic, can be traced back to the subjects of Śarduris. As I have there said, "Though Plato calls Er a Pamphylian, the name of his father Armenios points to Armenia, and it was from Armenia that the legend originally came. M. Emine, in his Russian translation of Moses of Khorene (pp. 254, 255), has pointed out that Er is Ara the Beautiful, beloved by Semiramis, the Assyrian queen, according to Armenian legend, and slain on the field of battle. Mar Apas Katina, from whom Moses of Khorene quoted the story, related how that Semiramis, in passionate love for the beauty of the Armenian king, vainly sought his hard, and, all other means of persuasion failing, marched against him with the army of Ninevel. A fierce battle was fought on the plain of Ararat, so called from the hapless prince who was slain there by the soldiers of the Assyrian queen. In an agony of grief Semiramis called her gods to lielp, and essayed by magical art to recall the dead man to life. But though her efforts were fruitless, she calmed the Armenians by pretending that 'the gods Aralez' had restored him from dcath. As M. Emine says, it is clear that in the original form of the myth the dead man was actually brought back to life ; it was the influence of Christianity which caused this portion of the story to be modified. The spirits called Aralez still had their place in popular belief as late as the fourtl century of our era, since, according to Faustus Byzantinus (v. 36), it was said of the Armenian general Mushegh (A.D. 384) that 'as he was a brave man, the Aralez would descend and restore him to life."
"Now there can be little doubt that in the legend of Ara we have but a repetition of the myth of Apliroditê and Adônis, of Istar and Tammuz, of the beautiful Sun-god beloved by the
goddess of nature, and slain by the winter only to return once more to life. M. Fr. Lenormant has long since shown that Semiramis is the Assyrian Istar, the Greek Aphroditê ; and the story of Semiranis, borrowed by Ktêsias from Persian writers, is but a rationalized form of the old Babylonian myth of the goddess of love and war. The Armenian Ara is the Accadian Tammuz, whom the Phonicians called Adonai, Adonis, and we must see in him a name of the ancient Armenian sun-god.
"But who were the Aralez? The Armenian writers tried to explain their name from the verb leaul 'to lick,' as though titey had 'licked' the wounds of Ara and so restored him to life. This is plainly a mere piece of Volksetymologie. Babylonian mythology, however, here comes to our aid. The underworld to which Tammuz descends is called in the Accadian legend the land of Arali; and Arali, though the land of the dead, is also the land where 'the waters of life' bubble up from under the golden throne of the spirits of heaven and earth. Arali, moreover, was the lofty inountain on whose summit the heaven rests, and was rich with gold, like the regions beyond the Hyperborean mountains in Greek story. It lay in the 'extremities of the north,' the place of shadows, and seems in later times to have been identified with the mountains of Ararat, the very spot where the tale of Ara was localized. We are, therefore, tempted to believe that the gods of Arali were the prototypes of the 'gods Aralez' of Armenian legend.
"The belief, I think, becomes a certainty when we turn to the list of Assyrian kings given by Ktêsias. Ktêsias professed to have derived his statements from Persian originals, and the progress of Cuneiform research has supplied us with evidence that he spoke the truth. The earlier part of his Assyrian history consists of myths rationalized in the way in which, as the opening chapters of Herodotus show, the Persians were accustomed to treat the mythology of their neighbours. I have already alluded to the myth of Semiramis; and her son, Ninyas, 'the Ninevite,' is also called Zames-that is, the Assyrian Samas or Samsu, the Sun-god. The two successors
of Ninyas were Arios and Aralios, with whom Moses of Khorene makes Ara I. and Ara II. contemporary in Armenia. Now Aralios seems plainly our Arali, while Arios seems equally plainly Aria, 'the destroyer,' the Accadian name of Nergal as king of Arali. Nergal or Aria was the Sun-god during the hours of night and darkness, as Tammuz was during the time of daylight and summer.
"Whether or not Ara is the same word as Aria is, I think, doubtful. The Greek form Êr speaks against it, and it is better to suppose that Er, or Ara, was an Armenian name for the Sun-god, which in later times was confounded with the Arios (Nergal) of Ktêsias." Ardinis would appear to be the Vannic name of the Sun-god, and, according to the inscription of Meher-Kapussi, sacrifices were offered both to "the dead of Khaldis," and to "the Khaldises of the dead." The latter would be the Aralez of the Armenian historians. It may be added that the legend unmistakably points to the fact that the worship of the goddess Saris came from Assyria. This will be the origin of the tradition which brought Semiramis to Van.

According to Sargon, ${ }^{1}$ the two gods worshipped at Muzazira district between Khupuskia and Ararat ${ }^{2}$-and carried off by him were Khaldia and Bagbartuv. Khaldia, we are further told, was the god of Urśa of Ararat, who was so much affected by the news of the capture of his deity as to commit suicide. Perhaps we may infer from this that Bagbartuv was not his god, and as the name may also be read Bagmastuv, it may be of Aryan origin, and the first sign of Aryan influence in this part of Asia. A bas-relief at Khorsabad (Botta, Monument de Ninive, pl. 140, 141) represents the temple of Khaldia-a form of the name which must be noticed-as built on a square platform, and surmounted with a pediment which has a pyramidal shape. A door stands in the middle of the façade, adorned with four square columns. Round shields, with a lion's mouth in the centre, are hung upon the walls, like the shields in the Jewish temple. Jhey explain the use to which the bronze shields, found by Mr. Rassam near Van, were put.

[^146]The soldiers are depicted lacking the image of tho god to picces, and removing plunder from altars, which stand on one leg , and tripods. On the right of the ontrance is the figure of a cow giving suck to a calf, and in front are placed two largo brouze bowls or "seas," containing lustral water, and supported on tripods which have the feet of bulls. The wholo temple and its surroundings betray the influence of Assyria, liko the bronze solar disk from Van mentioned on p. 384, and the bronze winged hulls with human heads procured by Sir A. II. Layard from Van, and now in the British Museum.

## § II. Syllabary and Grammar.

The syllabary used in the Vannic inscriptions is a modified form of that employed at Nineveh in the uinth century b.c. As has already been said, the forms of the characters are those found in the inscriptions of Assur-natsir-pal and Shalnaneser II. At first the wedges were cut across one another as on the Assyrian monuments, but during the reign of Menuas the nature of the rocks on which the texts were engraved caused the sculptors to divide a wedge in two when it iutersected another, $\mathcal{F}$ for instance, becoming $-Y$. This was to prevent the stone breaking at the point of intersection.

Each character was allowed to retain only one phonetic value, and (with 18 exceptions) only those characters were adopted which denoted the four vowels, $a, e, i, u$, and the open syllables $b a, b i, b u$, etc. In order to express the vowel of a syllable with greater clearness, the character denoting it was commonly written after the one which eontained the consonant, $l a$, for example, being written $b a-a$. In this way, the people of Van came very near to changing the syllabary into an alphabet. Indeed, in one instance at least, the change was actually made. The final $-s$ of the nominative, as Dr. Hincks pointed out, is represented by the character se, which must be read here simply $s$. This is proved by our never finding a vowel written after it, as well as by its interchanging with is after the vowel $i$ (e.g. iii. 1), and it is curiously confirmed by the usage of the Cypriote or Asianic syllabary in
which a final consonant is similarly denoted by a character which consists of the consonant in question followed by $e$. Dr. Hincks, however, was wrong in thinking that the $-n i$ of the accusative was also to be read simply -n, since this termination is sometimes followed by the complementary vowel $i$ or $e$.

Along with this syllabary a considerable number of ideographs and determinative prefixes were also borrowed. The grammatical terminations of the ideographs were generally denoted by adding to them other characters used phonetically to express the sounds of the terminations; these correspond to the phonetic complements of Assyrian. At times the word itself or the latter portion of it was written by the side of the ideograph which stood for it. The extensive use of ideographs induces me to believe that before the introduction of the Cuneiform syllabary the people of Van had been acquainted with another system of writing which was in large part ideographic. We now know that such a system of writing was actually in use from an early period among the Hittites and the natives of Lesser Armenia, where it had probably been first invented, and the way in which what are evidently phonetic complements are plentifully interspersed among the ideographic characters of the Hittite inscriptions is the exact counterpart of what we find in the Vannic texts. Inscriptions in Hittite hieroglyphics may yet be discovered within the limits of the old kingdom of Ararat.

The only palæographical difficulty presented by the Vamic inscriptions is one due to the fanltiness and inaccuracy of the copies of them which we possess. Most of these copies are excessively bad; in many cases, as we shall see, the text can be restored only by the help of parallel passages. Sir A. II. Layard's copies are by far the best ; next come those of Schnlz ; but all suffer from having been made by persons unfamiliar with the Assyrian mode of writing. There are certain characters, resembling each other in form, which are constantly confounded. These are $-y<Y d a$ and $-\bar{E} Y<l i$; $\sum$ ma and EY $n a$; $i$, the and $m u$; and tir to and $E$ la.

Fortunately squeczes of many inscriptions have now been sent to the British Museum by Mr．Hormuzd Rassan and Capt． Clayton，and these have shown me what the characters really are in the stereotyped phrases which occur over and over again． They have also set the general accuracy of Sir A．H．Layard＇s copies in a strong light，and so raised the presumption that where the latter differ from the copies of Schulz，the fault lies on Schulz＇s side．

List of the Vannic Characters．

| Yf a | EY（te）？dhi |
| :---: | :---: |
| ＝ $\mathrm{Y}_{\mathrm{Y}}$ | WYEY dhu |
|  | EyYM ga |
| く u | － 110 Al |
|  |  |
|  | －－－ka |
| －＜＜ba | （1）ki |
| $\Xi \quad b i$ | 戌 ${ }^{\text {ku}}$ |
| －b－bu and $p u$ | SY kia |
| $=\gamma \quad a b, a p$ |  |
| y－17 $i b$, ip |  |
|  |  |
|  |  |
|  | 闍 |
|  | EkY al |
| 5ilil id，it | Y运YYY el，il |
| －－＝＝dha，（dhe） | く铰 |


| 戒 | ma | 1 | ${ }^{\text {su }}$ |
| :---: | :---: | :---: | :---: |
| F－ | me，mi | 即 | ${ }^{\text {as }}$ |
| ＊ | ${ }_{m u}$ | İIT | is |
| － | ${ }^{\text {am }}$ | $\underline{-1-1}+1$ | ${ }^{48}$ |
| ＋\＆ | in | － | ${ }_{\text {ba }}$ |
| ？ 5 ＝2YY | $u m$ | ＝$=1$ | ${ }_{6}$ |
| Er | $n a$ | $\checkmark$－ 4 M | ${ }^{64}$ |
| Eft， |  | if | ${ }_{\text {za，}}$ ，tad |
| 21 | ${ }^{n u}$ | $-\mathrm{H}-\mathrm{E}$ | ${ }^{\text {zi }}$ |
| H | ${ }^{a n}$ | － | ${ }^{\text {zu }}$ |
| FHif | ${ }^{\text {un }}$ | Etl | ${ }_{\text {toi }}$ |
| 㺺 | ${ }^{p a}$ |  | ${ }_{s t}$ |
| ¢ | $p^{i}$ | EMY | ${ }_{\text {ta }}$ |
| － | $p^{p u}$ ，bu | －$k$ | ${ }^{\text {ti }}$ |
| E＝Y | ${ }^{\text {ra }}$ | ＊ | $t{ }^{\text {c }}$（ ${ }^{\text {d }}$ d ） |
| － $\mathrm{H} \times 1$ | ${ }_{\text {ri }}$ | § | ${ }^{\text {tu }}$ |
| －imm， |  | W | ${ }_{\text {kla }}$ |
| ＜n－r｜ |  | \＆ | ${ }_{\text {khi }}$ |
| ＋ | ar | 年 | ${ }_{\text {khe }}$ |
|  | ir | －k | ${ }_{\text {klu }}$ |
| 上 | ${ }^{u}$ | $\cdots$ | bad |
| v | sa | － | bar |
| ＜ | ${ }^{\text {si }}$ | E＂W | ${ }_{\text {bur }}$ |
| 今 | $s, s$ | $\cdots$ | ${ }_{\text {lab }}$ |



IdEOGRAPHS.


兴 $\boldsymbol{y}$＇a mineh’

三MYE，二逼（food）
（halls）＇sacrifice＇
Ell＇victim＇
YYY（susis）＇sheep＇
＝Y\＆（pakhinis）＇ox＇
zr \ll＇wild ox＇
－Y\＆＝然＇lamb＇
D．P． $\mid Y \Longrightarrow Y-\gamma<Y(u l(?)-$ dhunis）＇camel＇

Mr（selhiris）＇alive＇
\＆$Y_{Y}^{Y}$＇many＇
＊＇in all＇
A＇hostile＇
IE（alidadu）＇to burn＇
Er＇to give＇
푸＇to make＇
＊＇twice＇
－Fy＜＇sixty＇
Vi by＇four fours＇
I＇times＇（Lat．＇vices＇）
$=T M \mid \rightarrow r$＇war－magazine，
－＝－（atsus）＇month＇
＋A．＇year＇
$-y$＇god＇
$\rightarrow$＊y（？Ardinis）＇th esun－ god，＇＇the day＇
－\＆H（Teisbas），＇the air－god＇
$-y=Y Y$＇heaven＇
$->\lll<$（Selardis）＇the moon－god＇
\＃+ －ry ＇Assyria．
YY＇river＇
＋YY＇to have＇

+ EIV＇shepherd＇

Determinatives．
－$y$ Dec．Prefix of divinity D．P．of animal
Y D．P．of an individual
Yer D．P．of a woman
Fry D．P．of a people

EY D．P．of wood
Fate Bet．Affix of plurality

The characters to which an asterisk is prefixed occur only in the two inscriptions of Sarduris I., which are written in Assyrian. Exclusive of these, there aro 73, or perhaps 74, characters used to express open syllables (including simple rowels), 18 to express closed syllibles, while there are 58 idcographs, of which 21 arc compound, and 12 arc also employed phonetically, together with at least 7 detcrminatives. Onc of the ideograplis (taken, not from the ordinary Assyrian form, but from the hieratic Assyrian form, of the character, Y. Compare the Susianian or "Protomedic"
 curious mixture of the two characters - Y-y 'language' and $-Y+Y$ 'pooplc.'

Among the simple idcographs, 12 aro also used with

 a Vannic inscription as an ideograph (li. 8)-though used as such in the two Assyrian texts i. and ii.-as is also the case with $=Y Y Y=$ (li. 8). On the other hand, I occurs only once with a syllabic value (xxxvii. 18), while yyy usually has 1 a distinction in form between $\rightarrow Y$ 'alive' and $\rightarrow Y<t i$. An attempt is made to keep ideographs apart from characters which are used phonetically ; thus $=\sim$ is 'four,' not $V$. If $\rightarrow$ is used as an ideograph in $v .7$, we shall have to increase by one the number of ideographs.

二人 $=1$ in Assyrian has the variant values of ne, $i z, p i$, pil, bil, dhe and dha. Its value in Vannic, however, is fixed partly by the word $k u-\boldsymbol{A}=-a-d i$ 'on departing ' by the side of kudhūbi 'I departed,' partly by its occurrence in the name of Malatiyeh, the Assyrian Milidia or Melidi, which is written Me-li- $\boldsymbol{\Delta}=Y-i-e, ~ M e-l i-Y=-a-n i$ in Nos. xxxiii. 16, xxxviii. 16 , etc. We cannot read the character as the here, since parallel grammatical forms show that in $k u-\boldsymbol{=} \rightarrow-a-d i$
the vowel (a) marks the vowel of the preceding character. Just as we have ustadi and not usteadi, so we should have kucthabi and not kudheadi. On the other hand, in $Y H u-i$ -- $\hat{\Delta}=Y-e-r u-k h i-i-n i-e-i$ (xlv. 37), we must read dhe, unless the $a$ is intended to stand for $\ddot{a}$.

The character always has the value $t u$, as is proved in various ways. Thus we find it followed by the vowel $u$ as in $t u-h u-b i$ (xxxii. 3) by the side of the more usual tu-bi, and in xxxiv. $13 h a-a l-d u-b i$ is written ha-al-tu-bi. It also forms part of the name of the district Bustus, which is Bustu in the Assyrian texts. Just as the more easily-formed character $Y$ was adopted to express the sound su in preference to EY, so AY was adopted in the stead of rey. In v. 30, 81, vii. 6, xii. 3 , $=-Y Y Y$ may be used with the value um. That has the power of $k$ ihe, and not of gan or he-which are further powers of it in Assyrian-is made clear by xxvi. 5, xxxiii. 18, where $I_{s-p u-h u-i-n i-e-}$ takes the place of the usual $I_{s-p u-h u-i-}$ ni-e-khi. So, too, al-khi xlix. 17, al-khi-e 1. 2, 6, and al-khe ( $=$ ) xxxiii. 16. That is bad is shown by its being followed by a $d$ (as in bad-di-ni, v. 24, by the side of ba-di-ni-ni xliii. 2). Similarly $=Y Y Y$ is followed by $d$ in lidd-da-mu-u-da (xxxii. 4). I read bur rather than pur, since $\rightarrow Y$ is replaced by ba-al in the name of Baltulkii (xxx. 2j, and xlv. 16). For see xxxii. 7. As $\rightarrow$ is followed by $r$ in the proper names Tarra . . . xxxvii. 28, and Kulbitar-ris, 1. 30, while the Katarzas of Menuas (xxxi.6) is the Kudhurzas of Argistis (xxxvii. 18), I make it tar. The value of is fixed by the variant spelling kha-ar in kharkharsubi (xxxviii. 19, 44), and that of by its representing in the name of Sarduris (liii. 2) the syllable which is written Śar and Sara in the Assyrian texts. We learn that $=Y$ was gis from the variant spellings of Argistis and gissuric. \& is shown to be bar and not mas by the name of the country of Bar-śu-as, the Assyrian Par'suas or Barśuas (see xxxix. 12).

A word always ends with a line. Tho only exception to this rule is No. xlix. 13, 14, where wo lave 'the country of Dakive-edia'-where cellia is regarded, not as a suffix, but as an independent word with the independent meaning of 'people'-xxx. 21, 22, where -khinie is regarded in the same way, and $\mathbf{x x x} .34,35$, where the compound arkhi-urudani is divided.

The Cuneiform syllabary was probably inadequate for the expression of all the somnds belonging to the Vamic language. It is difficult to determine tho exact pronunciation of the character which I have transcribed $e$ (as in Assyrian), but I fancy it was $\ddot{a}$. It is not unfrequently attached to a final long a; thus we have lakuada and lakikulae, Dhuspâ and Dhuspue or Dhuspâe. But we find also tiulaie (which I would read tiudaye) by the side of tiudae, and $e$ not unfrequently follows $i$, as in istini-i-e. $I$ is, I believe, sometimes used for the semivowel $y$, as in the example (tiudaye) just quoted, or in the particle in 'thus.' That the semivowel $y$ was known in Vamnic is shown by a word like ya-ni, xlv. 26. $U$ seems similarly to be written occasionally for $r$, as in the adjectival termination na-u-e, which I would read nave, ui for $u i$, and wedie, for redia, or in narusis 'a horse.' On the other hand, the pronunciation of $u$ appears to have been $\ddot{u}$ as well as $u$. Thus, by the side of al-sull-u-si-e (v. 49) we find al-sıl-i-si-e (r. 12), where it is better to assume that the combination $u+i$ represents an attempt to express $\ddot{u}$ than that in $a l-s s^{\prime} u-u-$ si-e the vowel sound of $i$ has fallen out. Perhaps $u i$ stands also for $\ddot{u}$ rather than for $x i$. $=Y Y Y=$ represents not only hu, but also $u$, while < is preferably used for what I suppose to be $u$. Thus we have $I s-p u-l u-i-n i-k h i-n i-s$ (xxvi. 2), but $I_{s-p u-u-n i-k h i-n i-s ~(x x . ~ 2, ~ 9) . ~ A t ~ t h e ~ s a m e ~ t i m e ~<~ a n d ~}^{\text {- }}$ EYYY = interchange elsewhere. For the sake of clearness, I have always transcribed $E Y Y Y=$ as lut, though it must be remembered that its common power is simply $u$.

The diphthongs are ai, au, ei (ae, ie, ue), and ia; probably also $u i$. But it is difficult to distinguish the cases where we have to pronounce a diphthong from those in which the two
vowels are sounded independently. Thus, analogy would lead us to write kha-ubi rather than khaubi, although we lave the eontraeted form khuli (xxxviii. 13, xl. 54).

It is the fault of the Cuneiform system of writing itself that the sounds of $b$ and $p$ are expressed by the same eharacter in $b u$ and $p u, a b$ and $a p, i b$ and $i p, u b$ and $u p$. The faet that $p a$ exists by the side of $b a$, and $p i$ by that of $b i$, shows that in pronunciation the language made a distinetion between the two consonants.

It is impossible to determine the exaet pronuneiation of the dental sound whieh I have represented by $d h$, or of the sibilants $s$ and $t s$. Dh became $d$ in śudukubi (1.27) by the side of the older sudhulcubi ( xxx .24 , etc.), but it is represented by $\cup(d h)$ in Assyrian (in Dhuruspa $=$ Dhuspas), and $\Theta$ in Greek (iil $\Theta \omega \sigma \pi i a)$. That $z$ had the same sound as the Assyrian $z$ (i) seems to result from the proper name Haza, which is written Aza in Assyrian. The Vannie language, by-the-bye, appears to have had as much partiality for the aspirate as the Assyrians had little. In the name of Sarduris the Vannie s' is represented by the Assyrian (s'). What the exact sound of $\kappa$ was I cannot even eonjeeture.

Phonetie decay seems to have affeeted the language very eonsiderably. Diphthongs beeome vowels and eonsonants disappear. In khuhi ( $\mathrm{x} \times \mathrm{x}$ viii. 13), for khaubi, au has beeome $u$, like kihudaye (xxxi. 22) for khandaye, and ai passes into $i$ in Binae (xx. 7) for Biainae, thongh we also find ulustabi (xxxiv. 7) for ulustaibi, and Bianaste for Biainaste, while ua regularly becomes $u$, as in the 3rd sing. present of the verb. The terminations espeeially suffer. Thus we have gissuri (xlvi. 9) for gissurie, and dudaye becomes dudue (xix. 17) and even duda (xxii. 9). Final $d$ is lost after the time of Menuas in addkid. Sinee the uane of the eapital Dhuspa(s) is always written Dhuruspa in the Assyrian inseriptions, it would seem that $r$ between two vowels tended to disappear. Probably there were two $r$ s, one of whieh was so slightly sounded in pronumeiation as not to be written in the native texts. If Bitamu really represents Biaina(s), and is not due to a mere Vollisctymologie, it would further seem that $t$ between two vowels might be lost, just as
it is in Aryan Armenian. In śuduḷubi clh is softened into d. On the other hand $d$ after $s$ is hardened into $t$, as in Biainaste. Haltubi and haldubi appear in the variant copies of the same inscription (xxxiv. 13) as well as zaduali and zotnali (v. 2, 33). The near approach made by the Vanmic syllabary to an alphabet must not be forgotten in dealing with the phonology of the language. The addition of a vowel, therefore, to a character which already contains it does not neeessarily imply that the rowel was a long one, as it would in Assyrian; it merely determines the vowel inherent in the preeeding character.

The Noun.-The noun has two numbers, singular and plural, and at least seven eases, but no gender. The nominative sing. ends in $s$, and the vowel which precedes determines the stem to which the noun belougs. Aceordingly we have nominatives like Menn-as from stems in -a, like Argist-is from stems in -i, and like al-us 'whoever;' or ats-us' 'month' from stems in -u.

The genitive singular terminates in $-i$, as in Menuai pida (xxii. 3) 'the memorial of Menuas,' Turiria-i ' of Tariria' (xxiii. 2), examples whieh show that the genitive preeeded the governing noun. So, too, from stems in $-i$ we have me- $i$ ' of him,' and Mennai-ne-i ' of her belonging to Menuas' (xxiii. 1). This $-i$ seems to be a weakened form of a more original -ye, siuce we find gisla-ye and gisla-e agreeing with Tarivia-i (xxiii. 1). In this way we are able to comneet it with the dative singular, which also terminated originally in $e$ (though not, apparently, in ye), the two eases being flectionally and syntactieally one and the same. The long inseription of Isbuinis and Menuas (No. iv.), whieh recounts the offerings to be made to the various deities, gives us many examples of this genitive-dative. Thus we have Hanapsa-e by the side of the shortened form Hanapsa-a, Melardi-e, and Arni-i-e, Khakdi-i by the side of Khaldi-e (e.g. v. 1). The following is a list of the principal genitive-datives occurring in this inseription :-

[^147]Stems in - $a$.
Suba-a
Eliaha-a
Talapura-a
Baba-a
Ai-a (Aya)
Arha-a
Adi-ya
Ui-a (Uya)
Khara-a
Araza-a
Hura-a
Erina-a
Kuera-a
Adaruta-a

Stems in -i.
Khaldi-i
A hui-e (Aluye)
Śardi-i-e (Śardiye)
Selardi-i-e (Selardiye)
Elipri-e
Siniri-e
Khaldi-nav-e
Baba-nav-e (Baba-nau-e)
Inua-nav-e
Aai-nav-e
Most of these are derivatives in -rli, -ri, and the adjectival -nav or nahu.

In the case of stems in $-a$, a distinction was made between the genitive which ended in $i$, as Menuai and the dative which had the contracted form in $-a$, as $S u b \hat{a}$, though, as we have seen, the more original form of the genitive also was gislaye.

The accusative singular is marked by the suffix $-n i$, as is shown by the imprecatory formula in which the accusatives pêi-ni 'name,' arkhe-urudâ-ni 'family,' and inai-ni 'city,' follow one another. The spelling of inai-ni-e (xxi. 15) shows that the vowel was long, and rather $e$ than $i$; and we find $-n i-e-i$ in xl. l. The suffix of the accusative might be omitted after the local affix -da; thus we have $p i-d a$ agmi' the memorial he has set up,' by the side of arkhe-uruda-ni. The patronymic termination -khini(s), on the other hand, instead of affixing a second -ni, lost its original one ; e.g. Argisti-ni Meman-khi-(e) 'Argistis son of Menuas' (xxxvi. 5), Diare-khi +-nie 'the lands of the son of Diaves' (xxiv. 7), and this happened even when the substantive was without tho accusatival sulfix ; as in xxxvii. 6, Diare-khi ma dubi 'I destroyed the king the son of Diaus.' The accusativo is used with an instrumental sense, as in na-ra-ni ' with fire ' (xxxii, 45).

An adjective, even if used substantivally, dropped the accu-
sative suffix $-n i$, and terminated in simple $i e$ or $\hat{e}$. Thus we have aluśê Dhuspae 'inhabiting Tosp,' badus'i 'decayed' or 'olll' (xvii. 5), writtell baduśi-i-e (x. 8). From this we may infer that $n i$ was really the suffixed demonstrative $i n i$. Similarly, where two substantives followed one another without a conjunction, the suffix -ni might be dropped in the first or even in both, as asi suśée 'lhouse (and) columms.'

The local case was denoted by the suffix $-d a$ (sometimes -dai, as in xxxiv. 41, xl. 29), as is proved by many examples. 'Thus we have pi-da 'a memorial,' from pi(s) 'a name,' Toriria-khini-da 'the place of the daughter of Taririas' (xxiii. 3), lihuradi-ni-da 'the camp' or 'place belonging to the soldiers' (xxxii. 4), Sadahadac-khini-d $\hat{A}-n i$ ' the place (acc.) of the son of Sadahadas' (xxxii 6). After $s$ the $d$ became $t$, as in Khatina-s-tâ-ni 'the place (acc.) of the Hittites' (xxxii. $\boldsymbol{\tau}$ ). It is difficult to understand why the accusative suffix - $n$ i is attached to -da in some cases and dropped in others. The local suffix was originally dae or dä (e.g. pidae xxii. 10).

The suffix -di must mark the locative, as in usta-di 'on (my) approach,' kudha-di 'on leaving,' mu-a-di 'among the people of the king' (xli. 13), khuti-a-di 'in the sercice (?),' isti-di ulkhu-di 'in this campaign' (1. 22), Bianaidi (xli. 7) contracted into Biainadi (lv. 14). After $s$-di becomes te, e.g. Biaina-s-te plural locative 'belonging to Biainas.' ' After the verb śudlukiubi 'I plundered,' we find III. =YYYY Y Y Y<<< $e-d i$ 'three palaces,' (xxx. 26), and it ebani-a-tsé-di-ni 'the chief of the people of the country,' where, however, di may be the suffix of agency as in Khal-di-s. The form in te $(=d e)$ shows that $-d i$ was originally $-d e$ or $-d i e$.

The same relation that exists between the vowels of the two suffixes $d a$ and $d i$ exists also between the suffixes kai and $k i$. -kai, as will be shown, is the genitive-dative of a noun formed by the suffix $-k a(s)$, which denotes 'family,' 'clan' or 'race.' Thus we have Da-di-ka-i (xxxix. 5) 'of the family of Dadis' (whose name is written Dadas in line 32 ), and Argisti-ka-i 'to the family of Argistis.' In xlix. 2, we read

[^148] ni-e ' the land of the Minni they have given to the family of Sarduris the son of Argistis,' where the patronymic is in the dative singular agreeing with Sardurikai.

The suffix -ki denotes the adverbial case, as is shown by the adverb adaki 'partly.' The original form of the suffix, however, was kid, as we learn from adakid (xxxii. 9), which may perhaps be analyzed into $k i+d$. The dental $d$ may represent either the locative $-d i$ or the local $-d a$. Of more doubtful meaning is the suffix-uki, which seems a compound of the adjectival $-u$ (as in $b a d-u-s^{\prime} i$, , $\left.l-u-s^{\prime} i\right)$ and the termination -ki. We find it in ebani-uki (xxxix. 1, 25), as well as ebani-ukie-di (xlv. 10), where the sense seems to be 'a part of the country,' but unfortunately the context is in neither place clear. In 1. 27 , a passage parallel to xlv. 10 , the contracted form ebani-ki-di occurs (if the copy is right). By the side of ebani-uki we also get ebani-uka-ni (xxxix. 7, 31), with a termination which we have in ik-ulic-ni 'goods.' It seems to signify 'tribal,' ' belonging to the clan of the country.' With ebani-uki must be compared kai-ukid (xxx. 13), written ka-ukie in 1.23 , from the same root apparently as $k n-d i(1.11)$. The word must signify 'with weapons' or 'by war,' where the adverbial meaning is evident. Compare also inuki (iii. 1) and inulawi (xxi. 5, xliv. 11).

I have not been able to discover any examples of the nominative plural unless it be tasmus (xxx. 17), but we see from the expression $\rightarrow-Y \lll<-s$ that it ended in $s$. The genitive-dative plural terminated in -nie (nê) (Iv. 3) and -ni, as in Khaldi-ni ' to the Khaldises' (v. 12, etc.), Khaldi-ui-ni 'to the gods belonging to Khaldis' (v. 17, etc.). The plural adjective following and agreeing with this dative ended in - ic (é) attached to the' suffix -s; e.g. Khaldi-ni alssic-s-è' 'to all the Khatdises ${ }^{\prime}$ (v. 12), Khaldi-ni dirul-s-é (v. 13). If, however, the preceding substantive had been elanged into an adjeetive by the adjectival suffix -ni, the adjective following took -ni, as Khaldi-mi-ni alsui-sí-ni' to all the gods belonging to Khaldis.' Similarly in v. 15 we lave - - $Y \lll-=Y Y$

Ar-tsu-hu-i-ni-ni' to the gods belonging to the city of Artsus.' Stems in a preserved their vowel if we may judge from the dat. pl. of the adjective usma-s-é.

The accusative plural terminated in more than one way. A stem in -i ended in $-e$, as suse 'sheep' from susis (xxxvii. 15, xtviii. 29, xlv. 22, xxxi. 17). That wo must read suse here and not sus is proved by the spelling in xlviii. 29. E might become $i$; e.g. setheri 'alive' (xxxvii. 42) by the side of selkerie i.e. selkhere (xxxvii. 13). This was especially the case if the noun ended in -nis; as in pahhini 'oxen' (xxxi. 17, xl. 39), though we also have ebanie. The suffix -ni of the singular was added to a collective in $-a$; thus we lave iz -huerlia-ni Y<<< 'womanfolk' (xlix. 10) as well as <y--huediani (xlix. 20). But the plural sign here denoted the sense of the word rather than its true grammatical construction ; tarsua-ni 'soldiers,' for instance, is grammatically a singular. This is also the explanation of the forms $=Y Y Y Y \lll<-r a-n i$ (xxxix. 35) and $=Y Y Y Y \lll<-r a-n i$ (liii. 6), which are connected with the adjective EYYY -arri-e (v. 78, xxxi. 13). Nouns in $-\|$ forned the acc. pl. in long $\hat{u}$, as hakhan 'chariots' (xxx. 20), naut 'horses' (xxix. 20), as well as navise (xlv. 26). Nouns in a similarly had an accusative in $-\hat{u}$; thus we find tarsua 'soldiers ' by the side of the sing. tarsuani, and ebana in 1. 26.

Another accusative plural was made by reduplicating the local and locative suffixes $d a$ and $d i$, and dropping the final vowel as in the adverbial case in -kid. Thus in xx. 3 we find $=$ =yYY armanidad 'tablets,' in 1.25 bibudid 'vases.' That the plural is intended here is shown by the form $\langle\rangle \lll<-d a-d a-e-$ di-ni, mudadaedini (xxx. 24) 'the people of the (two) kings.' Perhaps -dad expressed the dual and -did the plural.

When the local suffix denoted a single place in which a number of objects was collected, it was attached to the plural accusative of the noun; e.g. asida 'the site of the palaces' (xxx. 27). It thus frequently expressed an abstract, as killêda 'tribute' (xxx. 14), and so a collective which has the
force of a plural, as arnuyada 'castles' (xxxi. 4). See note on xxx. 14.

It is possible that in the forms Biaina-s-te 'among the Biainian (gods) ' and Khatina-s-ta-ni 'the seat of the Hittites,' the $s$ before the suffixes - $d i$ and $-d a$ may represent a plural. But it may also be the adjectival formative which we have in diru-si-s.

Duration of time was expressed either by the nominative sing. as atsus manus 'each month' (v. 2) or the acc. sing. as ardini 'during the day,' 'publicly.' The distributive 'day by day' was expressed by ardinini (v. 2).

A case which nay be termed perfective was formed by the suffix -li. When followed by a participle, this case represented the ablative absolute of Latin. Thus we have inili=4 zaduali (v. 2) 'after this gate was built' and inili zatuali (v. 33) 'after these gates were built'; from which we learn that the form was the same in both sing. and plural. Elsewhere we read mesnli 'after the summer' (v. 30), and at the end of the sentence dusisiuli-ni 'after the winter' (v. 31), where the final $-n i$ is the sign of the dative plural agreeing with the datives plural which have preceded it. In v. 9 occurs the expression alus-urulice-siuali, where the suffix -ve is a dative singular agreeing with 'god' understood, li the perfective suffix and alns the pronoun 'whoever' united with uruli-ve in a sort of compound. Literally the phrase runs: 'To lim whoever (is) after the offspring when they have been carried away.'

These suffixes may be added one to the other, and new forms thus created. From $n u$, for instance, the accusative plural of nus 'a king,' we get mu-dadae-di-ni, where di is the suffix of agency, while dadae is the local plural, and $n i$ the suffix of the accusative. Agumneeda, again, 'the place of buildings' (xxx. 27), is composed of the local suffix -da, the accusative suffix $n \hat{e}$, the plural $-u$, and the adjectival $n$.

## The Declonsion.

Stems in $-a$.
$\left.\begin{array}{lc}\text { Nom. } & \begin{array}{c}\text { Sing. } \\ \text { Menuas }\end{array} \\ \text { Gen.-Dat. } & \begin{array}{c}\text { Menuai } \\ \text { Klara'a }\end{array}\end{array}\right) \quad$-as ('gods')

Stems in -i.
Nom. Khaldis
Gcn.-Dat,
Khaldi
Acc. Khaldini, Argistikhi
suse, pakhini
Instr.
Local pida, pidae, burudani $\left\{\begin{array}{l}\text { kurêda, asida, } \\ \text { armanidad }\end{array}\right.$
Locat. Khaldêdi, Khaldidi bibudid
Adecrbial ebaniki(di)
Durative ardini (ardinini)
Porfectice inili
inili
Stems in $-u$.
Nom. atsus
Gcn.-Dat. Sebitue, Iskigulu
Acc. atsuni
Instr.
Local buruda
Locat. ulkhudi
Adverbial kaiukid, kaiukê
Duratice atsus
Perfective urpuli, urpuli-ni
tasmus
hakhau, nu
nudada
——_
-
$\qquad$

Formative suffixes are numerous. We may first signalize the patronymic khini, as Mremu-lihinis 'the son of Menuas,' Argisti-khinis 'the son of Argistis.' This suffix seems a compound of two others, khi and $n i$, which will explain why it is that the second syllable ( $n i$ ) is dropped in the accusative. We find $k h i$ in several words with the sense of 'belonging to,' 'originating from'; e.g. arkhi 'children' from the root ar 'to bear,' tulihi 'captives' from tu 'to carry away,' allihé (1. 2) and alkhit 'inhabitants.' Ni or $n$ is commonly employed to change a substantive into an adjective. Thus we have the genitive-dative Menuai-ne-i ' belonging to Menuas' (xxiii. 1), Khaldi-ni-ni 'to those belonging to Khaldis' (the gods belonging to the family of Khaldis), khuradi-ni-die 'the place belonging to the soldiers,' i.e. the camp (xlvi. 15), Khaldi-ni-dasê 'to those of the place belonging to Khaldis' (v. 15), where a fresh adjective in $-s$ has been formed from the compound Khaldinida.

This adjectival suffix -ni must be carefully distinguished from the flectional -ni of the noun and verb, which seems to be derived from the demonstrative ini 'this.'

Side by side with this suffix $n i$, we find another adjectival suffix na, which has what may be termed a territorial sense. Khaldi-nas means 'belonging to the land of Khaldis' as opposed to Khaldinis 'belonging to Khaldis.' The latter may stand alone as a substantive in the sense of 'the Klatdinian.' 'The gate of the land of Khaldis' is $\rightarrow$ Yhaldina (x. 4, ete.), not Khaldini. On the other lhand we have Khatiuas 'Hittite' (xxxiii. 11), Khatinaidi 'among the Hittites' (xxxviii. 12), by the side of Etiu-nis 'Georgian' (xliii. 34), Etimiedi 'among the Gcorgians' (xliii. 47). See also cbana (1. 26).
-ue or -re is a possessive suffix, denoting possession or attribute. Thus we get ippue (v. 4) '(to Teisbas) the inundator' from the root ip 'inundation,' lhula-lue or khulare 'possessing kings' (l. 10), where the adjectival ending replaces the genitive of possession. It may be followed by the suffixes di-a as in र-luu-e-di-a 'womanfolk.' Notice the remarkable alus uru-li-ve siua-li of v. 9.
＇Ihe suffix is attached to the territorial suffix－na when pos－ session of a country is implicd．Hence we lave in the dative $=Y Y A r-d i-n i-n a-h u-e \rightarrow$－＇to the god of the eity Ardinis，＇ Fimmenu－nace＇（to the god）of the city Kumenus＇（v．14）．If the name of the country belonged to a stem in a preceded by $n$ ， the word was treated as if the final－na formed part of the suffix，as Biainare＇belonging to the land of Biainas＇（xxvi．6）． ＇The dative plural lias the same form as the dative singular； e．g．－Y IThaldi－nare D．P．asis $Y \lll<$＇to the soldiers of the land of Khaldis．＇The double suffix may be attached to the adj．in－ni；e．g．Dhuspa－ni－na－re＇belonging to the land of the Tospian＇（v．14）．

A frequent suffix，which indicates＇people of，＇is $-a$ ．Thus we find cbani－a tubi＇the people of the country I earried away＇ （xxxii．3，etc．），Thaldi－a＇for the people of Khaldis＇（xxxvii． 16，etc．），tarsu－a＇soldiers，＇lihuradi－a＇armies，＇人－vecli－a ＇womenfulk．＇In the two latter words $-a$ is attached to the suffix of agency－di，which is itself preceded by the suffix $x e$ in the last word．In xliii． 75 we read XI．dhuluri－a aymum－ni ginusâ khaubi＇the people of eleven palaces（and）the plunder for a spoil I acquired，＇and in xli． 13 niedi＇＇among the people of the king．＇＇The proper name Mennas probably contains the suffix，though it may be a past participle．Words to which it is attached are treated like stems in $-a$ ，but，as in nouns which terminate in da，the aec．suffix－ni may be dropped．Hence we find tarsua（xlv． 9 ）as well as tarsuani．If the acc．suffix is dropped howerer，the word ending in－a ought to be fol－ lowed by another accusative to which $-n i$ is attached（see xlv． 9 ，xliii． 75 ，etc．）．

The suffix of agency is $-d$ ，which is also the locative ending． It is not difficult to understand how a suffix indicative of locality should come to be used in the sense of individuality or agency．The suffix occurs in the name of the supreme god Khal－di－s，as well as in those of the Sun－god $A r$－di－ni－s and the Moon－god Sclar－di－s．Compare also ŚSar－dis and khura－di． I have already referred to $\hat{\sim}$ re－di－a＇womanfolk，＇where we have a form which is once written $Y$ Dakicice－edia（xlix．14），
owing to the latter part of the word having to overlap into the next line, as well as to $\langle\langle\backslash \lll-d a-d a-e-d i-n i \quad$ ( $x x x .24$ ). We also find $\langle\langle \ \lll-v e-d i-a$ (xlv. 15), literally 'people of the individuals of the kings.'

Mention has been made above of the gentilic suffix $-k a$, as in Urbi-ka-s (liv. 9), $-=Y Y$ Dhumeiski-ni-ka-i (l. 11) where it is attached to the adjectival -ni, Argisti-ka-i, Dadi-ka-i, etc. Inu-ka-ni (xxi. 5) is 'a suite of chambers,' iku-ka-ni 'a series of furniture,' i.e. 'goods.'

We now come to a suffix -tsi, of the exact meaning of which I have some doubt. We find the following examples of it: xxxiv. 15, 'I changed the name of the city Lununis to $Y$ Menua - $-Y$ Y-e-a-tsi-da-ni ' of Menuas the place of the chief $($ ? $)$ of the citizens'; xxx. 28, 'the palaces, the place of plunder, it ebani-a-tsie-di-ni sudhukubi the chief (?) inhabitants of the country I despoiled'; xxxviii. 15, ustadi Khati-na-tsie 'on approaching the clief $($ ? $)$ of the land of the Hittites'; 1. 11, - Yy- aśi $Y \lll-t s i$ 'the clief (?) of the cavalry'; vii. 1, Khaldie urpu-a-tsi zaduni' the chief $($ ?) men of the shrine of Khaldis he has made'; xlv. 40 (三Y-?) a-ni-tsi dubi 'the chief of the people (?) I destroyed.' Cf. . . . . yasina-tsi-e xlviii. 11 and xxxix. 12, and xliii. 12. The phrase parallel to ebani-a-tsê-di-ni śudlutưubi is $Y$ < $\ \lll-d a-d a-e-d i-n i$ śudhuḳubi (xxx. 24), and III. À ebanie-dac-di-ni śukhukubi 'the inhabitants of the three countries $I$ despoiled' (xlv. 8). Compare also xxxix. 5, 6, arieni Y Dadi-kai it Kulasini it Babani sudlukubi 'the possessions of the house of Dadis, the lands of Kulasis and Babas, I despoiled'; and xxxviii. 57, it $-\sim r y=Y Y Y \lll t s i-c$. If my conjectural rendering of tsi by 'chief' is not accepted, the only other interpretation of it of which I can think is 'dependents' or 'all' (see xxxix. 5, 6, and xlix. 19).

There are three other suffixes which very rarely occur, and of which I can offer no explanation. These are -me as in khasi-alme, askihu-me (xxiv. 6), by tho side of askhu-da-ni
(xix. 12)-for which see note on the passage, and cp. Ey . . . me $Y \lll$ xix. 5 and . . . daeme, xli. 13 ;-zi in armu-zi (xxviii. 9) and gala-zi (xi. 4) by the side of bur-yala-dle (xxxi. 3) ; and -tu or -du, which we have in the name of Khaldida or Khaldita, the father of the pretender to the throne of Babylon in the time of Darius Hystaspis.

One of the suffixes employed to form adjectives is $s$ or $s i$, as in Whaldinidla-s-e, quoted above, diru-sie (v. 13), alśll-si-s 'multitudinous,' etc. The difference between the meaning given to a stem by $-s i$ and $-m i$ is illustrated by the two adjectives, alsui-si-s 'being a multitude,' i.e. 'multitudinous,' and alsui-ni-s 'belonging to a multitude,' i.e. 'of multitudes ;' see $\mathbf{x x} \boldsymbol{7}$.

Another formative of the adjective is $\dot{s}$, which especially follows the rowel $u$. Thus we have alu-se 'inhabitant,' musi(s) 'royal,' ma-śi(s) 'powerful.' 'The adjective in ś may be used as a participle governing a case; thus aluśie Dhuspae 'inlabiting Dhuspas' (where the substantive follows in the genitive), adaisí ikukanedini 'assembling (?) the men of property' (li. 4). It is also attached to the local suffix, as -re-da-si-nie (xl. 79).
$R i$ is another suffix used to form adjectives, as in eur-ris 'lord,' sekheris 'alive.' Compare, too, dhuluri(s) 'a palace.' Among the substantive suffixes is $-b$, which we have in atibi 'thousands,' and niribi 'the dead' ( v .20 , etc.). Compare, too, Teisbas 'the Air-god.' I can offer no explanation of the suffix which we find in the dative plural baddi-sa-ni (? baddlisani) by the side of baddini (v. 25).

Compound derivative forms worthy of attention are $-\underline{-r \mid}$ aśi $(Y \lll)$-veda-du-da 'the ruined quarters of the cavalry' (xliii. 43), armi-u-si-ni-da 'place of the fortress,' and khuradi-ni-da-re-da (xxxvii. 5).

Compounds were formed by dropping the flectional suffixes of the first of two compounded substantives, which, as in the Aryan languages, defined the second. Thus we have arkhiuruda(s) 'family' (literally 'children-household ') ; ip-tu' to bring an inundation' (xliv. 13).

The genitive or defining word preceded the noun it defined, as in Menuai pida 'the memorial of Menuas ' (xxii. 3) ; in the case of the personal pronoun, however, the genitive mei followed its governing noun. This also seems to have happened occasionally in other instances, since we have 'the gods of the languages' written ideographically in v. 3, where the ideograph of 'languages' follows that of 'gods.' It is possible, however, that in reading, the order was reversed (just as in Japanese when written in Chinese characters), the whole being regarded as a single ideographic expression.

The adjective preceded the word it governed, as in aluse Dhuspae 'inhabiting Tosp,' and if in the accusative, lost the suffix -ni like patronymics in -khinis.

Otherwise the adjective followed its noun.
In place of the genitive, the defining substantive might be changed into an adjective by the attachment of an adjectival suffix. In this case it might precede the word defined; e.g. Menuainici gislaye ' of the mother (?) of Menuas.' But it may also follow, as nue khulave ' king of kings' (li. iii. 10), nue ta Surave 'king of Suras ' (li. iii. 9).

The Numerals.-The numerals are denoted as in Assyrian, Y for $1, Y$ for $2,<$ for 10 , etc. However, $H_{\&}$ or represents 9 and $\rightleftharpoons 4$, to avoid confusion with $V(s a)$. $\langle\lll$ is 60 , but $Y<70, Y \ll 80$, and $Y \lll 90$. $Y$ is 'twice' (xxxvii. 14, etc.), $\backslash$ 'sixty' (xliii.16,78). Instead of writing XIIIM. or XXIIIM., the people of Van wrote XMIIIIM. and XXMIIIII., from which we may infer that they said 'ten thousand, threc thousand' and 'twenty thousand, three thousand' instead of 'thirteen thousand' and 'twenty-three thousand.' 'Thousand' was atili (xxxvii. 14, etc.).

The nom following a numeral higher than 'one' was usually in the plaral, though the singular might also be used (sec v. 5-37).

The Pronouns.-Of the personal pronouns I have discovered only the third. This is mes 'he' (xax. 16, xlv. 40), the genitive-dative being mei, the local case meida (xlix. 11), or
meda (liv. 5), and the possessive meiesi(s) (r. 31), with acc. sing. mî-si-ni in xax. 15, xxxiv. 14, xlix. 17, etc. Unlike other adjectives, the possessive pronom stood before its noun in a quasi-substantival sense, and the substantive which followed might accordingly drop the flectional suffix (iii). Hence we have mesi-ni pi and not mesini pini (e.g. xxxiv. 14). 'The accusative is ma-mi 'him' (xix. 19, etc.), and we also find manini (v. 24, xix. 6) used as a dative plural. While mei is employed in the sense of 'of him,' and made to follow its noun, $m$ is an indeclinable possessive pronoun signifying 'his,' 'its 'and 'their,' attached enclitically to a substantive (xxxvii. 5, etc.). Instead of $m m$ we have ma after agmmmi 'spoil ' (xxxvii. 26, see xxxix. 69, xliii. 39). ${ }^{1}$

The third personal pronoun accordingly has the following forms :-

## Possessive:

Sing. Nom.
Gcn. Dat.
Acc.
Local

Pl. Dat. Acc.

Indeclinable
mes. mei. mani. me-da (liv. 5). See mciada, xlix. 11. (manini, xix. 6). ? mani. (me 'his,' 'its,' 'their.' ( ma ' 'his.'
(meisis, mesis).
meisi.
mesini.

The analogy of the first person singular of the verb would lead us to infer that $b i$ was the pronoun of the first person.

In liii. $6, b i$ seems a dialectal variety of $m u$ : see note on the passage.

The relative pronoun is ies, as in alus udas tindue ies zadubi 'whoever destroys that which I have done' (xx. 13, etc.),

[^149]alus udas tiudae ies D.P. Lumunini khaubi 'whoever destroys that in that I conquered the city of Lununis' (xxxiv. 18, 19). Udas is also written $h u-d a-e-s$ (xxxi. 29, etc.). We might read udase and iese as accusatives plural, but I prefer to regard udlas and ies (or yes) as indeclinable pronouns in the same durative case as atsus (v. 2), since udue-s-e by the side of udae and udani would not be easy to explain. The adverb iu 'thus' belongs to the same root as the relative pronoun. Alus is the Indefinite 'whosoever,' and is followed by the verbal form in -dae or -da. We find the adverbial alukid (probably) in v. 26.

The Demonstratives are (1) ini 'this,' an acc. sing., the meaning of which was discovered by Dr. Mordtmann; (2) the indeclinable eha 'this' (v. 25, where it follows a noun of locality in the accusative ; ${ }^{1}$ xiii. 3 , where it precedes the accusative singular, but without the acc. suffix; xliii. 16,78 , where it precedes the acc. plural; and xlviii. 29, where it also precedes the acc. plural) ; (3) udas 'that'; (4) istis 'this'; and (5) sulihe (v. 27, 28, 29) 'these,' 'this,' which always follows its substantive and seems indeclinable. Udas has already been noticed in connexion with the relative ies. Besides udas, we find the accusative singular udani (liv. 5), the acc. pl. uda $\hat{e}$ (xxi. 12, xxxiii. 24), and the gen.-dat. sing. udai (xliv. 8, xlviii. 19, l. 37). Udas, udani, and udaê are all used absolutely, without a noun; uddui precedes a noun turi or turie.

Istis is only twice found in the singular (in the dative isti (xliii. 15) after Khaldi, and in the locative (istidi), 1. 21, where it comes before its noun). Elsewhere it is always in the plural, following its noun, and forming the plural of the singular ini and eha. Besides the dative plural isti-ne or isti-ni, we find also the derivative isti-ni-mi'belonging to these' (e.g. xxxviii. 43, D.P. hase D.P. lutu siubi isti-ni-ni 'the men, and the women belonging to them, I carried away'). as well as isti-ni-ve-di-a (xxxi. 15) 'the people belonging to them.' The plural dative istinie is construed with the col-

[^150]lective singular dative Khaldit, Khaldia istinie being 'for these people of Khaldis.'

The root of ini seems to be $i$, which we also find in $i$ and ies, from which it would appear that in Vamnic, as in other languages, the relative was originally a demonstrative. I-ni probably had no nominative, and came to be regarded as the full form of the pronoun. Hence we have the loeal inider and perfective inili formed from it. The final -ni seems to have been the origin of the accusative suffix, which accordingly was not attached to a noun when ini preceded it. The noun is invariably placed after ini, which is written $i-n i-i$, xxxiii. 12. The local case inida is used as an adverb in the sense of 'here,' opposed to sada or salae 'there.' When the perfective inili was followed by a substantive and a participle, the participle might drop the perfeetive suffix; thus we have ini-li $=-7$ - $l i$ sidistua-li 'after this gate had been restored' in xvii. 4 , and xviii. 3 , but ini-li baduśie sidistuali in x .8 (so also v. 2). We must not comnect with ini the words inuki (iii. 1), inu-kn-ni (xxi. 5, xliv. 11), and imu-simi (xxi. 3), which mean respectively 'as a chamber,' 'a suite of chambers,' and 'belonging to the ehambers.'

The Distributive pronoun is manus 'each,' as in atsus manus 'every month' (v. 2). From this we have mamudae 'place of each' (liv. 8). The indeelinable mamu might be attached to the stem of a noun in order to give it a distributive sense ; e... baddi-manu 'each old man' (xxx. 17), adlu-manu 'some and each' (xxxii. 10). Mamu is also the acc. pl. which follows agumu-ni in xlix. 14, 15, 17, 1. 20 (see also 1. 6). The dative plural seems to be mani-ni instead of manumi: see v .24 ; xix. 6.

The indeclinable substantive add 'part' may also be reekoned among the pronouns. It is most frequently employed in the adverbial case; ada-ki-ada-ki being 'partly—partly,' i.e. 'some -others.' Its combination with manu in ada-manu has just been quoted. It is the origin of the copulative eonjunction ada 'and.' Distinct from either ada 'part' or ada 'and,' is the rerbal form $a$-dlae or a-da 'he says' (root a). We have
also another ada meaning 'the sum-total' and used indeclinably as in ada - ry-tu-lihi' the sum of the captives' (xlix. 25). In xxi. 3 it is difficult to know whether ada signifies 'part' or 'the whole.' In xix. 7, 9 ada-ada is literally 'part-part.' i.e. 'both-and.' Adlue-cla in xlv. 33, nay be 'the place of the whole,' 'the commonwealth.'

The pronoun sa- is the correlative of ini. The local case sada or sadae is used in the sense of 'there' (xxxix. 14, xt. 13 , etc.), and the accusative sa-ni may perhaps occur in 1 v .12 (cp. xia. 3). The derivative adjective sa-ce 'belonging there' is found in li. 5 (cp. istini-ve-dia above). Perhaps the particle $s a$, with which $s a-t u b i$ and $s a-t u a d a$ are compounded ( 1.17 , xxx. 14, l. 24), is the same pronominal stem. See also sa-na xia. 3, and sa-ni 1v. 12.

The Verb.-The verbal stem usually ends in $-u$. Thus we have agu 'to take,' aru 'to bring,' asgu 'to capture,' du 'to destroy,' haldu 'to remove,' khau 'to conquer,' kharkharu 'to root up,' kudhu 'to withdraw from,' kugu 'to write,' paru ' to carry away,' siu ' to carry off,' tiu ' to overthrow,' tiru ' to establish,' ulu 'to give,' zudu 'to make,' 'do,' $\approx a s g u$ ' to kill.' Very rarely do we find another vowel, as in usta (earlier ustai) ' to approach,' and $t i$ 'to call.'

Several of the verbs are compounds; e.g. ip-tu' to bring an inundation,' sa-tu 'to take hostages,' s'ul-ustibi 'I imposed,' ul-ustaibi 'I offered' (literally 'I approached with gifts'), kabkar-utubi 'I approached' (literally 'I gave approach'), sidis-tu 'to restore' (literally 'to carry away back again'). As in the case of compound substantives, the defining word comes first.

These compounds take the place of the derived conjugations. At any rate-with the exception of a sort of passive-I lave been able to discover no other conjugation besides the active. In place of the causative we have a compound like $i p$-tu' to inundate,' formed by the stem tu 'to bring away,' 'cause.'

A kind of passive is formed by the prefix ap,-itself, however, really the first part of a compound. We find it in aptini (xia. 3., xxxii. 6, 7, lv. 12) 'which is called.' The form
not only has a passive signification, but contains the relative pronoun as well.

The first person singnlar of the past tense is formed by attaching the suffix -bi to the verbal stem; e.g. zadu-bi ' I have done ' or 'I did,' zasgu-bi 'I have killed' or 'I killed.'

The third person singular of the past tense is formed by attaching the demonstrative - $n i$ to the verbal stem ; e.g. zadu$n i$ 'he has done' or 'he did,' li-ni 'he has called' or 'he called.'

The third person plural is the same as the third person singular, as is proved by No. $v$. where we have te-ru-ni $Y \lll<$ (v. 27), after the double nominative 'Isbuinis and Mennas,' by the side of te-ru-ni (ll. 2 and 28). This curious fact may be explained partly by the want of conjunctions in the Vannic language, two nouns being coupled tocyether without any conjunction and thus forming a sort of compound, partly by the origin and character of the suffix of the third person, which is identical with the suffix of the accusative singular and the dative plural. Thus at Palu (xxxiii. 2, 3, 8, 10) the forms karu-ni and khau-ni are actually datives plural of the participle governed by ustabi, like the adjective Memua-ni' belonging to Menuas; and in the common formula: Khaldi-ni ustabi maśi-nt gissure karu-ni 'to the Khaldises I approached, the mighty powers who have given,' karmen is similarly the dative plural of the participle. See xxxvi. 6.

Besides the past tense there is a present tense, which is also used in a future, a subjunctive and an optative sense. The third person of this tense is formed by the sulfix -dlaye, -dae or -da, which seems to have been originally identical with the local affix of the noun. Thus we have the recurring phrase $\Gamma$ a-dae or a-da 'So-and-so says,' alus ini ési tu-dae. 'whoever shall carry away this tablet.' Like the third person of the past tense, the third person of the present is the same in both singular and plural; e.g. $\rightarrow-Y \mid \lll-s . . . u \not u-d a$ (or -ulu-dae) 'the gods shall give' or 'may the gods give.' See note on xx. 10. Nothing can show more plainly that the verb had not yet been distinctly separated from the noun and
beeome a true verb. The full form of the suffix of the third person of the present was primarily -ada, as in sidistu-ada (xx. 4), satu-ada (l. 24), but the sound of a eventually disappeared after the preeeding $u$, resulting in sidistuda and the like. After the local ease the form in -ada may be used in a relatival sense, as armanidad khu-ada sidistu-ada, 'the tablets which were destroyed he restores' (xx. 3).

Of other tenses there are no traees in the inscriptions.
The past participle was formed by suffixing -as (in the nominative) to the verbal stem. Hence we have, in the perfective ease, zadu-a-li'after having made' (v. 2), sidistu-a-li 'after having restored' (x. 8, xvii. 4, xviii. 4). When used in the sense of a Latin ablative absolute, this partieiple, with the suffix of the perfeetive, always followed its noun, which also had the perfeetive suffix. For the participial origin of the suffix -ada see note on xx .10 .

The present partieiple suffixed -es to the stem, as sies 'removing' (xli.19). This suffix might even be attaehed to the first person singular of the past tense. Thus we find kharkhar-sa-bi-es, for kherkhar-su-bi-es 'digging up' (xli. 20), where the change of vowel must be notieed. These partieiples, like the persons of the verb, govern the aeeusative.

So also does the adjeetive in $-n i s$ when formed from a rerbal stem; e.g. Khaldi-ni-ni . . . usta-bi Argisti-ni . . . khau-ni Huluanici ebani ' to the children of Khaldis I prased who belong to Argistis who has conquered the land of Uluauis' (xxxvi. 6).

A change of meaning is sometimes expressed by a change in the vowel of the first syllable of the verbal stem. Thus karu-ni is 'who have given,' while kuru-ni is 'the givers' (dative plural). Where, too, the verbal stem terminated in $-u$, as was usually the case, the eorresponding nominal stem terminated in $-a$, as in kudhu-bi ' I departed,' by the side of Viudhe-di' at the departure.'

Adterbs, Prepositions and Conjunctions.-The adverbs found in the inseriptions are not very numerous, and, apart from the adverbial cases in ki, the only ones of whieh I ean be certain are amas, sidis 'anew;' and nulus. It will be noticed that
each of these three words observes a law of vocalic harmony， and all three terminate in－s．As，however，we find sidisi as well as sidis（iii．1，ix．2，x．8，xiii．2），it would seem that the more original termination was $-i$ ．Among the adverbs we may include the locals of the pronouns：inidd＇here，＇ sada＇there，＇and mamuda＇in each place．＇

Of similar formation to the adverbs are the two nouns gieis（v．28）and buras（xlv．18，39，xlix．17），whence the locative burdnadi（l．6）．They are both used as accusatives plural．I camot explain their forms except through the false analogy of adverbs like sidis and amas．

I know of only one preposition，parê or pari＇out of，＇from the stem parru＇to carry away．＇The noun follows in the genitive－dative．${ }^{1}$ When we compare pare or pari with sidisi， it becomes probable that the genitive－dative of the singular was the case which was stereotyped into an adverb，and more especially a preposition．The preposition is used after the locative of the noun ；e．g．Kudhadi pare＇on my return from，＇ as well as after the verb（liii．7）．

The copulative conjunction is rarely expressed，the nouns being coupled together without any indication of their relation bevond mere position，an illustration of the extent to which composition was carried in the Vannic language．Where the conjunction is expressed，it seems to be $u i$ or $r i$（ $\mathrm{\nabla} .28$ ，axxvii． 12 ），and ada．Ui simply couples together sentences and nouns，whereas ada may introduce a sentence（xlv．19，2．2）， and adn－ada signify＇both－and＇（xxi．7，8）．Iu is＇thus．＇

In the formation of words reduplication plays but a small part．We find，however，a species of it in the words mu－mui－yabi（xli．15），muru－muri－a－khini（xli．19），khar－kharu （ $x^{\prime} \mathrm{i} .18$ ）and the like．

Syntax．－The adjective follows its noun，and has the same suffixes of case and number attached to it，unless the suffix is －ni；as Memuas Isbuinikhinis＇Menuas the son of Isbuinis，＇ $\Rightarrow Y \mid \lll-a s t e$ D．P．Biainaste＇among the gods of Vau，＇

[^151] after pari is in the accusative．
but Menuani Isbuinikhi, Kaldini masinê ${ }^{1}$ gissurê 'to the Khaldises, the great powers.' We may also have Diace-kiti nu dubi ' I destroyed the king the son of Diaus' (xxxvii. 6). If, however, the adjectival suffix -ni, preceded the flectional $-n i$ in the first word, the adjective also as the second word took the latter suffix; e.g. Khaldi-ni-ni alsuisi-ni' to all the children of Khaldis.' The adjective in -ve may precedo its substantive if the latter is the word 'God'; see v. 19.

The genitive preceded the governing noun, with the exception of the genitive of the third personal pronoun, which followed it. We also find genitives following the noun in v. 12 and v. 24 . See also v $17,54$.

The dative may be used to express advantage, as gumus $\hat{a}$ 'for a spoil.'

The genitive-dative can be used in an instrumental sense, as ainei 'with dust,' xx. 12.

The use of the locative must be noticed in the phrase, xxxvii. 11, siadi Eriakhinie ebaniedi 'on despoiling the lands of the son of Erias.' Here siadi seems to be the locative of the participle, the construction being similar to that with the perfective case, while Eriakhinie is the genitive singular. The sense of the sentence is, 'while despoiling the lands of the son of Erias.'

After a locative like ustadi 'on approach,' an adjective follows with the locative suffix; e.g. ustadi it $A b u-n i e-d i$ ' on approaching the land of Abus.' But we may have another substantive in the locative, as ustadi it Urmedi 'on approaching into the land of Urmes' (xli. 5).

A collective noun in $-a$ may be construed as a plural ; e.g. Thaldi-a isti-ni 'for these people of Khaldis.'

The nominative stands at the head of tho sentence, except mes 'he, which for the sake of emphasis, apparently, follows the verb (xxx. 16). The nominative may also immediately precede the verb at tho end of the sentence, the dative and accusative coming before it ; c.g. l. 29, Inlaldia istinic inanida

[^152]Śariduris Argistikhinis zadumi 'for these people of Khaldis Śarduris son of Argistis built the city.'
'Ihe usual place of the verb is at the end of the sentence, and the preposition pari regularly follows it. Occasionally, however, it stands first, as in armi mes ada tasmus "he and tho nobility brought' (xxx. 16). At other times it may stand in the middle, as 'its men partly I slew, partly alive I took (and) 25 horses, oxen, sheep' (xli. 8, 9).

The relative may be used absolutely, as in xxii. 10, alus ulas timda ies ini pidue zadubi 'whoever undoes that which I have made, even this monument'; xxxiv. 18, 19, alus udas tiudae ies -YY Lumunini khanbi 'whoever undoes that (= the fact) in that I have conquered the city of Lununis.'

In place of the relative the adjective in -nis is commonly found, used as a participle; e.g. xxxiii. 2, Khaldini . . . . karuni $-=Y Y$ Puteriani 'to the Khaldises . . who have given the city of Puterias;' xxxvi. 4-6, Khaldinini . . . . Argistini IMemal:hie khami' to the chitdren of Khaldis . . . . belonging to (=of) Argistis, the son of Menuas, who lias conquered.'

Composition plays so large a part in the Vannic language that conjunctions are rare; nouns are coupled together by their suffixes being the same, or by one of them being treated as an adjective, or by their being regarded as forming a single compound. Thus in xxx. 16, the ideographs of 'gold' and 'silver' are coupled together without a coujunction, and the affix of plurality attached only to the last; and in v. 31 a whole sentence is similarly treated as a compound, the grammatical suffix being attached only to the last word (see note on the passage).

## III. The Inscriptions.

I must now explain the means whereby I have been enabled to decipher the inscriptions. The key to their interpretation have been the ideographs and determinative prefixes or affixes which the people of Van fortunately borrowed along with the selected characters of the Assyrian syllabary. The deter-
minatives indicate where we are dealing with the names of individuals, gods, countries, and cities, with the plural number or with words which denote stones, wooden objects, and the like. In this way it becomes possible to break up the inscriptions into sentences, and to guess at the meaning of a good number of them. 'The other ideographs here come in to render further assistance. When we find the ideograph which denotes 'cities' followed first by the phonetic complement -ni, then by the ideograph of 'burning,' and that, again, by the syllable $b i$, we are justified in concluding that $-n i$ denotes the accusative case of the noun, and $b i$ some person of the verb. Duplicate texts and paraliel passages sometimes furnish us with phonetically written equivalents of the ideographs whose meaning we know, and in this way enlarge our knowledge of the vocabulary. Thus the duplicate text of the inscription of Mühür Kapussi informs us that the Vannic name of the Moon-god was Selardis, while No. xlv. 9, compared with parallel passages in other inscriptions, shows that abidadubi signified 'I burnt.'

As I have pointed out in an earlier part of this memoir, the palæographical character of the Vamnic syllabary proves that it must have been borrowed from Assyria in the age of Shalmaneser II., at a time when Assyrian monuments and inscriptions had been erected by the kings of Ninevelı in different parts of Armenia, and we may therefore expect that the same similarity which prevails between the Tamnic and Assyrian modes of writing prevails also between the Vannic and Issyrian modes of expression. That is to say, the style and formmlæ of the Vannic texts may be expected to be modelled after those of Assyria.

Now an attentive consideration of the ideographs, and the positions in which they are found prove that such is actually the case. Let us take for example the favourite formula of Assur-natsir-pal: "From the land of Dagara I departed; to the city of Bara I approached; the city of Bara I captured; 320 of their soldiers I slew ; their oxen, their sheep, and their spoil I carried away; . . . the cities I burned with fire." With this we may compare the equally favourite formula of
the Yiamic texts: ustadi ta Manaidi khahubi it Irciluuni kudhudi puri is Assur-nini it Algani VIMCCCCXXI.

 K<<< YIIIMCCY us the following translation:-". . . the conntry of Mannai . . . the country of Irciymn . . . the country of Assyria the commtry of Alga(ni) ; 6421 men . . . . . alive . 2S6 horses, 2251 oxen . . . 8205 sheep." The usage of the Assyrian inseriptions, in which an idcograph is often followed by the word which it represents sometimes written phonetically in full, sometimes only represented by the last syllable or two, shows us that palkini and suse are either the Vannic words for 'oxen' and 'sheep' or the concluding portions of them. The ileograph which expresses 'alive' followed by the determinative affix of plurality plainly refers to the 'men' mentioned previously, and when taken in comnexion with the twicerepeated adaki and the two forms in $-l i$, which are proved by other passages to be the first persons of verbs, makes it clear that we have before us a Vannic rendering of the common Assyrian phrase " the men partly I slew, partly alive I took." When we further learn from other inscriptions that the root paru signifies 'to remove,' that klahuli is shown by numerous passages to mean 'I conquered,' that $-d i$ is the locative termination, and that ustali is used of 'approaching' the gods, we can have no hesitation in translating the whole passage : "On approaching the land of the Mamai I conquered the country of Irciynn; on departing out of the country of the Assyrians and the country of Alganis, etc." The passage also gives us certain details as to Vannic grammar. Thus we learn from it that the suffix - $n i$ marks an oblique case, that the plural of the word for 'men' ended in $-i$, and that the copulative conjunction was little used in Vannic, while the fact that in parallel passages the ideograph for 'alive' is replaced by the word sekheri increases our knowledge of the Vannic vocabulary. In an earlier part of this memoir (p.386) I have
referred to the important discovery of M. Stanislas Guyard, which has thrown so much light on the grammar and rocabulary of the Vannic inseriptions. This discovery was entirely due to the observation of the fact that in a series of words attached to the end of a number of Vannic texts, the ideograph of 'tablet' and the names of certain gods oceurred just where they did in the imprecatory formulæ attached to the end of many Assyrian inscriptions. It will be seen from the analysis of the inscriptions which follow, that I have tried to follow up the discovery of the French seholar, and with the help of similar phrases in the Assyrian texts to determine the meaning of the various words which occur in the formula in question.

The analysis of the inscriptions will suffieiently furnish further illustrations of the way in which it has been possible, first to ascertain the signification of certain Vannic sentences, then by this meaus to sketch the outlines of Vannic grammar, and finally to discover the similarity between the stereotyped phrases of the Vannie texts and those of the Assyrian texts of a particular epoch. I have given in every case the cvidence upon which the meaning I have assigned to the Vamnic words and grammatical forms rests, and there is no need of quoting any more examples of it here. I would only draw attention to the fact that the two earliest inseriptions of Van are not only written in the Assyrian cuneiform characters of the age of Assur-natsir-pal and Shalmaneser, but are also in the Assyrian language, and repeat the very phrases of the so-called Standard Inscription of the first-named Assyrian king.

## Inscriptions of Śar-duris I.

The only two at present known are both written in Assyrian. The second (No. II.) was copied by Sehulz, but very incorrectly, and is deseribed by him as engraved on a stone in the ruined eliureh of S . John, at the foot of the citadel of Van. Dr. Mordtmann explained it with the help of an Armenian dietionary! The aecurate copy given here for the first time was made by Sir A. II. Layard. No. I., copied by Sir A. H. Layard, is also here published for the first time.

## I.

1. $\left\langle(?)\right.$ sa $\quad Y-X=Y Y\left\langle Y\right.$-dur $Y_{Y}^{Y} Y \mathrm{Lu}$-ti-ip-ri sarre The Tablet (?) of Siar-dur son of Lutipri, the rab-e sarru dan-nu ar ${ }_{\text {cissati }}$ great king, the strong king, the king of multitudes,
2. sari \& Na -inri sarru sa-nin-su la
king of Nairi, the king (of whom) his rival existed not;
-ny-rihu tap-ra-te
the shepherd of habitations;
3. la-di-rn tu (AY)-ku-un-te sarru mu-sac-nis
he who fears not opposition the king who subdues lil-can-śu-te-su
those who are not obedient to him.
4. $Y=-Y-Y Y<Y$-dur $Y Y \quad$ Lu-ti-ip-ri $\underset{\text { sars }}{\langle<} \underset{\text { sarra- }}{\langle\langle }$ Sar-dur the son of Lutipri, the king of kings, ni sa $\underset{\text { cal }}{\text { F il }}$ su-nu $\underset{\text { serra- }}{\langle<}$ of whom, all of them, the kings,
5. ma-da-tar ( $\mathcal{Y}$ ) am-khar $Y-Y \nmid<Y$-dur $Y Y \quad Y$ Lu-tithe tribute I received. Sar-dur the son of Lu-ip-ri ca-ca-ar ( $\frac{2}{2}$ ) tipri ground
6. mana ana (Y) cu-bu-la-ni an-nu-te istu lib-bi this for cubulani these from the midst of the Al-ni-hu-nu city of Alniun
7. na-tsa-cu ana-cu dur an-ni-hu ar-ti-tsi-ip

I remove; I this citadel have built.

In the second inscription the first word is represented by AY, which, like <, denotes the Air-god when preceded by the determinative of deity, but also signifies, among other things, 'a tablet.' This meaning is not certified for <, though the latter sometimes expresses the Assyrian śilu 'a rock; ' but it suits the context here and may have been assigned to < by the Vannic scribe on account of the interchange of this character with $\frac{y}{1}$ in the name of the Air-god. The inscription is not written in very correct Assyrian and betrays its foreign origin. Thus sarru rabe ought to be sarru rabu (though here the Vannic scribe could claim Assyrian authority for his error), sa 'who' is omitted before sanin-su, ladiru is contracted from la-adiru, sa cal-sumu sarrani madatav is not an Assyrian construction, though it may well be a Vannic one, annihu should be anni, cacar kakar, and the Iphteal artitsip artetsip. It is possible, however, that we are intended to read the Iphteal u'artitsip where the Assyrian would have said urtatstsip or urtetstsip. ${ }^{1}$

With the name of Lutipri we may compare that of the god Elipri (v. 8). Lutu signifies 'women.' 'The reasons for reading the name of the goddess who answers to the Assyrian Istar as Sar liave already been given in an earlier part of the memoir (p. 413).

Taprate (1.2) is the plural of the fem. noun tapratu explained by bit-rie 'shepherd's hut,' with which Guyard connects the verbal form listabru (Jour. Asiat. Jan. 1880).

In line 6 Layard gives $n a$ instead of $m a$, as also in the 7th line of the sccond inscription, where Schulz more correctly has Ey. This inclines me to believe that in the last line we ought to read matsacu, the Pcrmansive 1st pers. 'I found' (N゙ゆ D), instead of natsacu. Here also Schulz has ma.

Cubulani is the plural of cubutu. What this may be I cannot say, as I have never found the word in Assyrian. It may be of Vannic origin, or a mispronunciation of the Assyrian cuburani 'halls.'

[^153]
## II. (Schulz I.)

 ? duppu
The tablet (?) of Śar-dur the son of Lutipri, sarru rab-e. the great king,
2. sarru dan-nu
sar eissati
sar it Na -i-ri the strong king, the king of multitudes, king of the land of Nairi,

## sarru sa-nin-su

the king (to whom) his rival
3. la ibs-hu lay- rihu tap-ra-te le ru was not ; the shepherd of habitations; he who fears not
4. tu-ku-un-te sarru mu-sac-[ni]-is la can-śuopposition; the king who subdues those who are not te-su
obedient to him.
5. $Y \rightarrow Y$ - $-Y \mid\langle \rangle$-dur $Y_{Y}^{Y} Y$ Lu-ti-ip-ri $\langle\langle\langle\langle Y \lll<-n i$ Sar-dur the son of Lutipri, the king of kings, sa cal su-nu of whom all of them,
6. sarra-ni ma-da-tav am-khar $Y->\neq Y Y<Y$-dur the kings, the tribute I received. Sar-dur

$$
\begin{aligned}
& Y Y Y \text { Lu-ti-ip-ri } \\
& \text { the son of Lutipri }
\end{aligned}
$$

7. ca-ea-ar ma-a [ana] cu-bu-la-ni an-nu-te istu lib-bi the ground this for cubulani there from the midst
8. $-=y Y$ Al-ni-hu-nu na-tsa-cu ana-cu dur an-ni-hu of the city of Alniun I remove; I this fortress ar-ti-tsi-ip have built.

In line $4 n i$ has been omitted by the original scribe, as the
copies neither of Schulz nor of Layard contain it. This is another proof of his imperfect knowledge of Assyrian. It must be noticed that Śar-duris is always mentioned without the case-termination ( $-i s$ ) of his name, from which we may infer that the case-endings of Vannic names are not always represented in the Assyrian inscriptions. The Assyrian "land of Nairi" is made the equivalent of the Vannic "land of Biainas," which takes its place in all other Vannic inscriptions.

## Inscriptions of Isbuinis.

## III. (Schulz XXXVI.)

The following inscription was copied by Schulz upon a round stone which had been turned into an altar in the church of Kalachik or Kaléjik, a village about a mile north of Van. The stone had evidently formed the base of a column, and was discovered in the earth near a pyramidal rock, on the top of which there is now a small church, but which, according to tradition, once bore a celebrated temple and idol. The second line of the inscription is merely a repetition of the first, as is not uncommon in Vannic inscriptions, more especially those which were engraved on columns.

1. $Y$ Is-pu-hu-i-ni-is $Y \rightarrow Y-Y Y<Y$ (-dur-khi)-ni-s bur-ǧa-na-ni si-di-si-tu-ni
2. $Y$ Is-pu-hu-i-ni-is $(Y)=-Y-Y \nmid<Y$-dur-khi-ni-s bur-ga-na-ni si-di-si-tu-ni
Ispuinis, son of Śarduris, the altar ( ${ }^{?}$ ? $)$ has restored;
3.     -         - khal-di-ni-ni us-(gi-ni)
(Y) Is-pu-hu-(i)-ni-is Y->十 $-Y Y<Y$ (-dur-khii-ni)-s
4. $\rightarrow$ khal-di-ni-ni us-gi-ni
(Y) Is-pu-hu-i-ni-is $Y-\boldsymbol{Y}-\boldsymbol{Y}<\boldsymbol{Y} \quad-$ dur-khi-ni-s for the gods children of Khaldis the fatorable (?) Ispuinis son of Śarduris

1．$=$ YYYY－i－ni si－di－si－tu－ni i－nu－ki ．．．du－śi－ni ．．． as－
gri-e-i-si-da . . .

2．$=$ YYYY－i－ni si－di－si－tu－ni i－mn－ki ba－du－śi－ni ．．．
as－
（gi）－e－i－si－da $\uparrow \ldots$
the temple has restored；as a chamber which was decayed ．the place of images，the comntry ．．．

Here，as in all other inscriptions，tho name of the king when standing at the head of the sentence ends in $-s$ ；we must，there－ fore，conclude that this is the termination of the nominative singular．Dr．Hincks long ago pointed out that the name of the father is added to that of the son，with the suffix－kihini attached to its stem，and the nominatival－s following．－khini－， therefore，forms patronymics．In the accusative，however，as we shall sce，the－$n i$ disappears，$-k / h i$ alone remaining to denote the patronymic．The suffix－khi，accordingly，woukd scem to be that which properly and specially denotes＇derivation．＇ This is borne out by our finding it attached by itself to other roots or stems besides those of proper names．Thus we have al－khi or alkhe＇inhabitants＇（xxxiii．16，1．2，6），tu－khi ＇captives＇（xliii．16，78，xlviii．25，etc．）．On the other hand， the suffix－$n i$ forms adjectives，and may usually be rendered ＇belonging to．＇This is clear from xxiii．1，Menuai－nei 个 gislaie＇to the wife of Menuas，＇or v．10，$-\forall \quad Y \lll<=Y Y$ Ar－tsu－i－hu－ni－ni＇to the gods belonging to the city of Artsuynn＇；not to mention many other passages which will be noticed hereafter．We may，therefore，analyze Surdurkhinis into Surchur－khi－ni－s．We learn from it that the adjective follows the substantive，and，as in the Aryan languages， assumes the same flectional suffix as the substantive with which it agrees．Since the substantive ends in $\leq \ Y i s$ ，it is evident that Dr．Hincks was right in regarding final as expressing merely s．The name of the goddess $-\mathcal{Y}-\boldsymbol{Y}<Y$ was pronounced Śar，as we learn from the Assyrian inscrip－
tions, where the Vannic royal name is variously written Sarduri(s), Śaraduri(s), Sariduri(s), and Seduri(s), as well as from liii. 2, where it is written phonetically. In Assyro-Babylonian $->Y-Y Y<Y$ symbolized the goddess Istar, and we may consequently assume that the Vannic Śar was the equivalent of the Assyrian Istar. Perhaps Mr. George Smith may liave been right in thinking that the Vannic deity and her name were actually borrowed from the Assyrian. At any rate, it is curious that she does not occur among the list of Vannic divinities enumerated in the inscription of Melher-Kapussi (No. v.). I believe that $-Y Y<Y$ came to be regarded by the Vannic scribes as a phonetic complement, since, according to the rules of Vannic grammar, we shonld have to read Sari rather than Śar. Dur is similarly written for duri, which appears elsewhere (e.g. v. 1), in imitation of the Assyrianizing inscriptions I. and II. The Vannic flections were usually disregarded by the Assyrians in their reproduction of proper names. The meaning of Śar-duris I cannot explain. Possibly duris may come from the root du 'to destroy,' with the help of the adjectival suffix $r i$; so that the word might mean 'he who destroys for Śaris.' Since, however, we find $t$ now and then softened into $d$, it is possible that the word may be connected with turis, for which see note on xx. 14.

In place of the non-existent character $y Y$ of Schulz's copy, I read na, and so get the word burgana-ni, which occurs in v. 29. Here we read that Ispuinis and Mennas burgana-ni sukke teruni 'have set up this . . .' As the burgana was restored before the temple, it must mean either the altar or the image, and, for reasons which will be given under v. 28-29, it wonld seem to signify rather the former than the latter. The suffix - ni denotes the accusative, as was first perceived by M. St. Guyard in consequence of his discovery of the relationship between the favonrite formula with which the dedicatory inscriptions of Van conclude and the concluding formula of similar Assyrian texts. I shall therefore defer a proof of the fact until we come to deal with the formula in question (No. xx.). $N a$, as we shall see here-
after, is an adjectival suffix, so that the stem of the word is burga. No other similar word occurs in the inscriptions, unless it bo buruda-ni (xix. 8) or burgala-du (xxxi. 3, 11).

Sidisi-tumi is shown by a comparison with the other inscriptions to be a vorb. In xvii. 5,10 , it is written si-cli-is-tu-hu-mi, which shows that must bo pronounced tu, not par as Dr. Mordtmann supposed, the rule in the Vannic inscriptions being to write a vowel after an open syllable which ends with tho same rowel, not after a closed syllable which ends with a consonant. Now in somo inscriptions the verbal form after a singular nominative terminates in $-n i$ as here, in other inscriptions in -bi. Thus we havo Menuas . . . adduni (xxi. 2), 'Menuas has built,' and zadubi in xx. 14. That the termination $-b i$ marks the person of a verb is clear not only from tho place it invariably occupies in the sentence, but also from its being attached to the ideograph 'to burn' following tho ideographs $=$ =YY Y<<< 'cities.' The only question is what persons or tenses $-m i$ and -bi respectively indicate. Now I can find no difference between the construction and sense of the sentences in which the two are used which would lead me to suppose they denoted a difference of tense or mood; I therefore conclude that they denote a difference of person. The Assyrian inscriptions, though generally in the first person, are also sometimes in the 3 rd , and it is these two persons which I believe to be expressed by the suffixes $-n i$ and $-b i$. My reasons for thinking that $-b i$ signified the first person and -ni the third are the following: (1) The phrases '[I] burnt the cities,' '[I] dug up the palaces' and the like, which are frequent in the historical inscriptions, are mere stereotyped repetitions of the same formulæ which appear time after time in the Assyrian texts, and the latter are always in the first person singular. (2) The forms with -bi occur after the introductory phrase ' X says,' which is not the case with those in $-n i$. (3) The forms in $-n i$ are hardly to be distinguished from the accusatives in $-n i$, which may perhaps be connected with the demonstrative pronoun $i n i$. In fact, they can also be used as verbal adjectives agreeing with the dative plural of another
adjective ; e.g. xxxvi. 6, Argisti-ni . . . . khau-ni'(to the Khaldises of) Argistis who has conquered.' I have no hesitation, accordingly, in treating sidisitu-ni as a third person singular. The word is evidently compounded of sidisi and the common root $t u$, which means 'to carry away,' as is shown by such passages as (xlix. 17) < ( $n i=-y Y B u-i-n i-a l-k h i=-1\rangle-B u-r a-$ as $t u-b i$ ' the king of the inhabitants of the city Bui(s) (and) court I carried away,' or (xx. 10) alus ini $=$ =YYY $+\boldsymbol{F} \boldsymbol{Y}$ tu-dae 'whoever shall carry away this tablet.' The context of the inscription with which we are at present dealing leaves no doubt that the compound verb here must lave some such sense as 'carrying away back again,' i.e. 'restoring.' Sidisi, therefore, will be an adverb signifying 'again,' 'back,' 'afresh.' In all the later inscriptions the word appears under the contracted form sidis, from which we gather that a certain number of adverbs ended in -s. The verb $t u$ is compounded with two other adverbs of a similar formation, mulus-tubi (xxxviii. 42) and amas-tubi, and it is singular that in all three cases there should be complete vowcl-harmony, the two vowels of sidis being both $i$, those of nulus $u$ and those of amas $a$. The proper name Śarduris had already taught us that compounds are not infrequent in Vannic. As in the Aryan languages, the defining element is placed after that part of the compound which is defined. The final $-s$ of the adverbs is shown by sidisi to be contracted from an earlier -si.

The great inscription of Meher Kapussi, as we shall sce, affords us a considerable number of datives. Among these we have Khaldie, Khaldini, and Khaldinini, all derivatives of Thaldis, the name of the supreme Vannic deity. Ithaldie, as will appear, is the dative singular, Khaldini is shown by the numeral ' 4 ' which is coupled with it (v. 12) to bo the plural; but what is Khaldinini? We have already scen that $-n i$ is an adjectival suffix; the name of $Y_{\text {spuinis }}$ itsclf, for example, is an adjectivo formed by this suffix from the stem Ispu; and Khaldini(s), accordingly, would mean 'he who belongs to Khaldis,' like the Latin consularis from conswl. The dative plural of Khaldinis would be Khaldi-ni-mi, which
would accordingly signify 'for those belonging to Khaldis.' Consequently there were not only the several local Khaldises worshipped in different parts of the Vannic kingdom, but also a large progeny of gods who were considered their offspring. Usgi-ni is shown by the suffix to agree with Khaldini-ni. It must be either a substantive in apposition, or an adjective; more probably the latter. I have found no other example of usginis in the inseriptions, and have no clue to its exact menning. The stem is usyi.

The ideograph $=Y Y Y Y$ is elsewhere replaced by asi, showing that asis was the Vamnic word for 'temple.' Thus in xiv, we lave :-ini =YYYY asi khû́se zuduni' this temple kihuśe he las built.'

In xxx. $27:-Y Y Y Y$ Ey- $Y \lll<a s i-d l a ' t h e ~ p a l a c e s . ' ~$
In xxxi. 12 :-asield 'the palaces.'
ln xxx. 9 : - =YYYY EY-Y<<< -si-dla 'the palaces.'
In v. 12 again we read $-\boldsymbol{Y}$ Thaldi-ni $-n i=$ YYYY asie 'to the 4 Khaldi's of the temple.' The final $-n i$ of asini must denote the accusative as in burgana-ni; we cannot read ini 'this,' as the demonstrative always precedes its noun.

Inuki will be an adverb. At least such is the force of the fiual $-k i$ in the word addai in the phrase which I have analyzed above (p. 449). Besides adaki we also find adakid with EYYY instead of $\langle Y$ Y. This I conceive to be the earlier form, the final dental being perhaps shortened from da or di. In 1. 27 , we have $\$$ ebani-ki-di, where the locative termination $d i$ is added to the adverbial $-k i$ attached to cbani 'country.' Inn-ki, however, cannot be dissociated from the $i n u-k a-n i^{1}$ of xxi. 5 and xliv. 11 (where we have alus gici inukani eśinini siuduie 'whoever shall carry away ...'), or the $i n u$-śsi-ni of xxi. 3. Here inukiani must denote something that the king has set up or constructed, and, as we shall see, ean signify only 'a series of chambers.' 2 The next word is given in Schulz's

[^154]copy as：$\langle\rangle\langle Y|=Y Y$ ．This elearly stands for
 this word until I eome to No．ix．

Gieisida must be compared with v．28：－－Khallie luese（？） EYYY－ari sulhe teruni ui gieis $-\boldsymbol{Y}$（ $Y \lll$ ）＇to Khaldis these offerings（？）of the men they have established and the images of the gods，＇and xtiv．11：alus giei inukia－ni eśinini siudaie ＇whoever shall carry away the ．．＇The latter passage shows that giei must represent something contained in what ean be earried away，while the former passage implies that it was something ereeted in honour of the god Khaldis．I therefore conjeeture that it must mean＇an image．＇The suffix－$d a$ is explained by No．xxiv．，where we read ：Menuainei人 gislaie（ Taririai ini $\leq \boldsymbol{Y}$ uldi Taririakhini－da tini ＇of the mother of Menuas，Taririas，this memorial one has ealled the place of the son of Taririas．＇So，too，we have inida ＇here，＇sada＇there，＇ete．，as well as asida＇palaees，＇literally ＇house－place，＇from asis＇house．＇The inserted sibilant in giei－si－da，denotes the plural，as is evident from such forms as the dative plural $a l s i u-s i-n i$ by the side of the dat．sing．of the adj．in ni－，alsusi－ni（e．g．xxii．4，5，\＃Khaldinini alsusini Y Menuani ．．．〈〈 alsuini＇to the multitudinous children of Khaldis belonging to Menuas the king of multitudes＇）．We must therefore analyze the word as $g i e i-s i-d a$ ，stem + plural affix + local affix．${ }^{1}$

What follows，the eopy of Sehulz leaves doubtful．The second line，however，eontains the ideograph of eountry，which can hardly be right，as it does not suit the context．

## IV．

The following inseription runs round a pillar in the posses－ sion of a native named Hosain，in the village of Zustan，about six miles to the north of Van．A squeeze of it has been taken

[^155]by Mr. Hormuzd Rassam, and it is now published for the first time. The inscription consists of three lines, each of which contains the same words. The repetition of an inscription in this way is not mucommon in the case of the early Vannic monuments. As the second and third lines are precisely the same as the first, I do not give them here.
$Y$ Is-pu-hu-i-ni-s $\quad Y->Y-Y \mid<Y$-du-hu-ri-c-khi-ni-e-s i-ni Ispuinis the son of Sarduris this EYYYY (as)-e za-a-du-hu-ni. houso has built.

The spelling Śzrdurêkhinês shows how little distinction there was in pronunciation between $i$ and $e$. I imagine tlat $i$ was short, $e$ long $i$.

For (as)e see iii. (asini). After the demonstrative ini the acc. suffix $-n i$ is always omitted. $E$ here represents the $i$ of other inscriptions, as in the case of Sardurêkhinés, which elsewhere is written -khinis.

For the proof that ini is the demonstrative 'this "-a discovery due to M. Stanislas Guyard, though already divined by Dr. Mordtmann-see No. xx.

Zaduni is the 3rd pers. sing. perf. of a verb zadu. The meaning is fixed not only by the context of this inscription, but also by that of many others, as was seen by Mordtmann. A farourite formula, which we shall have to discuss hereafter, is alus udas tiudaie ies zadubi ' whoever destroys that which I have made ' (xx. 13, 14, etc.).

## V. (Schulz XVII.)

This inscription is engraved on a square tablet of rock, called Meher Kapussi (Mühür Kapussi), 14 ft .7 in . high by 6 ft . broad, at the top of the Akkirpi, the western spur of the Zemzem Dagh, about two miles east of Van. Akkirpi 'the white hedge' is so inappropriate a name as to have suggested to Schulz the possibility of its being a corruption of some older designation. According to tradition, the semicircular
scarped cliffs of the Zemzem Dagh have been separated from the acropolis of Van by a recent volcanic catastrophe. The crater of the Nimrud Dagh, it may be obscrved, is declared by the natives to have been in eruption only four centuries ago. The tablet is divided into two, and hence looks like a gate at a distance. This has produced a legend which relates how that it is the entrance into a great subterranean city inhabited by the Divs. Hence the name Meher-Kapussi or Mihr-Kapussi, "the Gate of Meher," which has no meaning in either Turkish, Kurd or Armenian, but, Schulz suggests, may represent Mithra the Sun-god. It is only on the feast of S. John at midsummer, it is believed, that the gate opens of its own accord. The inscription consists of the same text twice repeated with slight modifications, the first half containing 31 lines, the second half 53 lines, the greater part of which is now obliterated. They are separated from one another by a blank space. As will be seen, it gives an exhaustive list of the deities reverenced by the primitive people of Van, and the offerings prescribed to be made for them, and shows that Ispuinis towards the end of his reign associated his son Menuas with himself in the government. The Meher-Kapussi is still a place of pilgrimage, and above it about 10 minutes to the east, on the highest peak of the Zemzem Dagh, are the remains of an ancient fortress, once approached by a corridor with a stair-case of 50 steps. Hard by is a conduit, which communicates with a long series of caverns and excavations in the rock. Shortly before Schulz's visit, some Turkish children had found here a small black cylinder covered with Cuneiform characters, which, however, they unfortunatcly lost. As the neighbourhood is strewn with fragments of pottery, it would seem that the fortifications of the ancient capital of the Vannic kingdom once extended thus far.

1．（－＊）Khal－di－e e ${ }^{1}$－hu－ri－e $\quad$ Is－pu－hu－i－mi－s
Y Śar－du－ri－e－khi－ni－s
Y Me－nu－hu－a－s

32．－ $\boldsymbol{Y}$ ．Khal－di－e e－hu－ri－e $\quad Y$ Is－pu－huri－ni－s Y Sur－du－ni－e－khi－ni－s（33）Y Me－nu－lul－a－s
To Khaldis，the lord，Ispuinis the son of＇Surduris［and］ Menuas

2． $\boldsymbol{Y}$ Is ${ }^{2}$－pu－hu－i－ni－klii－ni－s i－nii－li 33．$Y$ Is－pu－hu－－यni－khi－ni－s i－ni－lizy $Y \lll$ za－i－tu－hu－（a）－li the son of Ispuinix，$\left\{\begin{array}{l}\text { this grote } \\ \text { these yates }\}\end{array}\right\}$ haring been built，

 have set up the regulations of sacrifice，day by day（for） month each．

3．- 类 Khal－di－e－i - y －＝审 1 《く


To Khaldis，Teisbas（the Air－god）［and］the Sun－god，the gods of the peoples，

 6 lambs ．To Khaldis ．．．．．．．for sacrifice
${ }^{1}$ So Layard．Schulz has a nonexistent character．
${ }^{2}$ So Layard．Schulz has a blank．
${ }^{3}$ So both Layard and Schulz．But we must plainly read tu－ki．
＊Schulz has here forgotten to repeat the final（1 of the character ar．
5 If is right－and both Layard and Schulz give it－we must suppose that the Tannic scribe has confounded the two characters $\gg$＇people＇ and $\rightarrow Y=1$＇language．

 Teisbâ pakhini suse

$$
\begin{aligned}
& \text { pakhini suse }
\end{aligned}
$$

36．〈 pakhini suse

17 oxen， 34 sheep．To Khaldis（and）the inundator the Air－god 6 oxen 12 sheep．To the Sun－god 4 oxen， 8 sheep．

－＊Dhu－ra－ni－i－e

EYE YYEYイく＜
$\rightarrow Y \quad K h u-d h u-i-n i-e$
EYर YY Y EM－－Dh ${ }^{4}-[$ ra－ni－i－］e
To Khudhuinis 2 oxen， 4 sheep．To Dhuranis an ox， 2 sheep．
 Y $\because$ Y
 Na－la－［i－ni－］e
To Lias 2 oxen， 4 sheep．To Nalainis 2 oxen， 4 sheep．
${ }^{1}$ So Layard．Schulz has the nonexistent YYY and $\langle Y$ Y．
${ }^{2}$ Layard and Schulz have
${ }^{3}$ So Layard．Schulz has the Sun－god，so frequent in the inscription，requires Layard＇s reading．
${ }^{4}$ So Layard．Schulz has blank．
${ }^{5}$ So Layard．Schulz has blank．
${ }^{6}$ So Layard．Schulz has $l e$ in this lime，la below．

6．$\rightarrow-Y$ Se－bi－tu－hu－e $Y Y=Y\langle Y Y$ EYY $->$ Y Ar－si－me－la $Y=Y$ Y Y Y Y
 Ar（－si－me－lia）－e
To Sebitus 2 oxen， 4 sheep．To 1 risimelus 2 oxen， 4 sleeep．
7．－－Y Ha－na－ap－sa－a $=Y\left\langle Y Y\right.$ EY $-y$ Di－du－a－i－ni－［ce］${ }^{1}$率迸
 Di－e－lu－［a－i－ni－］e
To IIanapsas an or， 2 sheep．To Dechainis an ox， 2 sheep．
7．$-\mathcal{Y}\langle\langle\langle=Y\langle Y Y$ EYY $\rightarrow-Y$ Khal－di－na－huec $\rightarrow-l i$

 Khal－di－（na－hu－e - ）－li $Y \lll$
To the Moon－god an ox， 2 sheep．To the dead belonging to Khaldis an ox， 2 sheep．
8．$-\mathcal{Y}$ At－bi－ni－i－e $=Y\langle Y Y$－$Y$ Ku－hu－e－ria－a水川测火思
 K $\mathbf{u}^{3}$－（hur）－e－ra－a
To Atbinis an ox， 2 sleeep．To Thueras an ox， 2 sheep．
8．$\rightarrow$－E－li－ip ${ }^{4}$－ri－e $E Y Y Y Y$ YY $\rightarrow Y$ Khal－ra－i－ni－e二Y YYY Y Y Y＜＜
 ra－i－ni－e
To Elipris an ox， 2 sheep．To Khalrainis an ox， 2 sheep．
${ }^{1}$ Layard＇s copy allows space for this letter，and marks a flaw in the rock．
${ }^{2}$ Layard has Wh．This would make Selardis the name of the Moon－ god．As Schulz has a lacuna before the first character（me）of the name，this is most probably the correct reading．
${ }^{3}$ So Layard．
${ }^{4}$ So Layard．Schulz has lu，but ip in the duplicate．
9. - - A-da-ru-ta-a $=Y$ YY Y EYYYYEY

Ir-mu-) si-ni-e
To Adarutas an ox, 2 shece. To Irmusinis an ox, 2 sheep.

42. $=Y\left\langle Y Y\right.$ III $--Y$ A-lu-s-Hu-ru-li-(hu)-e- ${ }^{4} \mathrm{Si}^{4}-(\mathrm{hu})-\mathrm{a}-\mathrm{li}$

To the god ' who (is) when the offspring are carried away' an ox, 2 sheep.
泛YYYY
 E-ri-na-a
To Aldutusinis an ox, 2 sheep. To Erinas an ox, 2 sheep.
10. $-\operatorname{Hi}^{6} \mathrm{Si}^{6}$-ni-1i-i-e $=Y$ Y YY


Hu-ni-na-a
To Siniris an ox, 2 sheep. To Huninas an ox, 2 sheep.
11. $-\mathcal{H}$ A-i-ra-i-ni-e $E Y\left\langle Y Y\right.$ YI $\quad-y=-Y Y(?)^{7}$ Zu-ma-ru-e =Y YY YEY

Zu-ma-a-ru-e
To Airainis an ox, 2 sheep. To the god of the city Zumar an ox, 2 sheep.
${ }^{1}$ So Layard. Schulz has ni.
${ }^{3}$ So Layard. Schulz is unintelligible.
${ }^{5}$ So Layard. Schulz has ap. Both Layard and Schulz have ap in the duplicate, but alap would be written a-la-ap, not al-ap.
${ }^{6}$ So Layard.
7 The character is doubtful in both Layard and Schulz. It may be au. In this case the god's name would be Zuzuuarus.


水 II 甽

d－1：1－za ${ }^{1}-a$
To Kharas an ox， 2 sheep．To Arazas an ox， 2 sheep．
11．$\rightarrow Y$ Zi－hu－ku－ni－e $=Y\langle Y Y$（12．）$\rightarrow$ YY Hu－ra－a数川犋
47．$二 ⿰ 冫 欠 Y Y Y Y \Longrightarrow Y$ Zi－（hu）－ku－hu－ni－c $=Y\langle Y Y E Y \rightarrow Y$
Hu－rala
To Ziutiunis an ox， 2 sheep．To Huras an ox， 2 sheep．
12．$\rightarrow$ y Ar－tsi－bad－di－ni－e $=1<$ A Ar－ni－i－e
二イर YY YEY
48．$E Y\langle Y Y E Y$－Y Ar－tsi－bad－di－ni－e $E Y\{Y Y E Y Y$－Y
Ar－ni－i－e
To Artsibaddinis an ox， 2 sheep．To $A$ mis an ox， 2 sheep．

 To the four．Khaldises of the house an ox， 2 sheep．
12．－K Khal－di－ni al－su－i－si－e $=Y\langle Y Y Y Y \lll<$
 To the multitudinous Khaldises an ox， 2 sheep．
13．$\rightarrow$ Y Khal－di－ni di－ru－si－i－e $=Y\langle Y Y Y Y \lll$ 50．$二 ⿰ 冫 欠\}$ Y $Y$ Y Khal－di－ni di－ru－si－i－e To the Khaldises of ．．．．．．．an ox， 2 sheep．

[^156]
 To the horsemen belonging to the land of Khaldis 2 oxen, 4 sheep.
13. - -
 Teisba-e
To the horsemen of the Air-god 2 oxen, 4 sheep.
 $-=Y Y$ Ar ${ }^{6}$ di-ni-na-hu-e $-{ }^{-}+$
 52. =Yर YY 長 ${ }^{7}$ (ニYY)

To Ardhuharairus 2 oxen, 34 sheep. To the god of the city Ardinis
14. $\equiv Y\langle Y Y$ Y EY Y Y Y
52. Ar ${ }^{6}$-di-(ni)-na-hu-e $-\boldsymbol{Y} \quad(E Y<)$ YY Ḳu-me-nu-na-hu-e -y
an ox, 2 sheep. To the god of the city of Ḳumenus an ox, 2 sheep.
14. $-=$ YY Dhu-us-pa ${ }^{8}$-ni-na-hu-e $-y^{*}=Y\left\langle Y Y\right.$ YYY $Y \lll{ }^{9}$
53. EY (YY YEY - =YY) Dhulus-pa-na-hu-e - Y

To the god of the city of Dhuspas an ox, 2 sheep.

53. $=Y\{Y Y$ YYY - - Y $\lll<-$ - Khal-di-ni-ni $-=Y Y$

To the gods, the children of Khaldis of the city an ox, 2 sheep.

[^157] Khal－di－ni－da－si ${ }^{2}$－i－e
54．（EY YYY EY YY YEY
To the gods of the city of Artsuinis an ox， 2 sheep． To the gods of the place of

 Khaldis an ox， 2 sheep．To Subus an or， 2 sheep．


 Y気 - －
To the gate of the city of Khallis an or， 2 sheep．
To the gate of the city of Eridias of the Air－god an ox， 2 sheep．
 －午 E－li－a－ha－a $=Y$ Y
54．三Y YYY
（EY YY YEY－－E E－）li－e－ha－a
To the gate of the Sun－god in the city Huisis an ox， 2 sheep． To Eliahas an ox， 2 sheep．
17．－Y Khal－di－ni ar－ni－i－e $\equiv$ Y YY Y Y Y＜＜
－午 Khal－di－ni us－ma－si－i－e＝Y Y Y YEY
 $-\sim$ Khal－di－ni）us－ma－si－e
To the Khaldises of the citadel an ox， 2 sheep．To the
Khaldises the gracious an ox， 2 sheep．

[^158]17. $-\infty Y Y \lll<\nmid$ (Khal) ${ }^{1}$-di-ni-ni śu-śi-ni $=Y\langle Y Y|$
 To the gods the children of Khaldis of the \{building(s) an ox, 2 sheep. wall ( $s$ )
二Y YYY YY
55. (EYSYYYEY - Y Ta-la(?)-) ap-(lıu-ra-a) $=Y$ YYYYEY $->$ Y Ḳi-li-ba-(ni-e)
To Talapuras an ox, 2 sheep. To Kilibanis an or, 2 sheep.
 $\mathrm{Al}^{5}-\mathrm{ga}^{5}$-ni-na-hu-e) $-Y \geq Y\{Y(Y$ YY $)$
 EY Y YY YEY it (Al-ga-ni-na-hu-e) $->$ Y
To the god of the country an ox, 2 sheep. To the god of the country of Alganis an ox, 2 sheep.
\[

$$
\begin{aligned}
& \text { 19. }-=Y Y \text { (?) Tsu(? })^{6}-\mathrm{i}-\mathrm{ni}-\mathrm{na}-\mathrm{hu}-\mathrm{e}-\boldsymbol{Y}=Y \text { YY Y } \\
& \rightarrow \text { Y } \lll<(-\mp Y) \text { At-ka }{ }^{7}-n a-n a-h u-e
\end{aligned}
$$
\]



To the god of the city of Tsuinis (?) an ox, 2 sheep. To the gods of the city Athanas

1 This is omitted in both Layard and Schulz, and may have been an orersight of the original engraver.
${ }^{2}$ Layard has EY; Sehulz - EY.
${ }^{3}$ So Layard.
4 So Layard.
${ }^{5}$ So Layard.

 jeetures $l i$, but both Layard's copy and the duplicate text show that this is wrong.
${ }^{\text {s }}$ So Sehulz, probably rightly when we compare the next paragraph.
 $Y=Y\langle\langle X Y Y$

．．．di－）rat－hu－e
2 oren， $4(14)$ sheep．To the god of ．．．divas 2 oxen， 14 sheep．




To the god of the nations， 4 oren， 18 sheep．To the Khaldises of the dead an ort， 2 sheep．

20．$\rightarrow y^{4} \mathrm{Hu}-\mathrm{a}-\mathrm{i}-\mathrm{na} \mathrm{h} \mathrm{h}-\mathrm{e}=Y-Y \mathrm{Ni}-\mathrm{si}-\mathrm{a}\left(?^{5}\right)^{5}$ $\mathrm{du}(?)^{5}-\mathrm{ru} \mathrm{u}-1 \mathrm{i}$ YY YET Y＜＜＜

Ni－si－a（？）－du（？）－ru－）ni
To the gate of the city of the god IHuais the city Nisiadurus（？） 2 sheep．

20．\＆ $\mathrm{Ba}^{6}$－ba－na－hu－e＜
58．＜\＃Ba－ba（－na－hu－e）
To（the god）of the land of Babas 10 sheep．

59．（ $二 ⿰ 冫 欠<$ 人 Y Y
To Harubainis a wild ox，a sheep．

[^159]

To Babas a wild ox，a sheep．To Dhuspuas（the god of the people of Dhuspas）a wild ox，a sheep．
21.
－- A－hu－i－e $=$ K

60.

To Auis（the Water－god）a wild ox．To Ayas（the Earth－god）a wild ox．To Śardis a wild ox．
 －${ }^{Y}$ Bar－4sti－i－a
62．（YY YII－ $\boldsymbol{Y}$ Tsi－nu－ya－）ar－di－i－e
To Tsinuyardis 2 sheep．To Ipkharis a sheep．To Bartsias a sheep．
22．$\rightarrow$－ $\mathrm{Si}^{3}-\mathrm{li}-\mathrm{i}-\mathrm{a}$
－A Ar－ha－a
（23）$\rightarrow$－ A－di－i－a

64．（？）
To Silias a sheep．To A rhas a sheep．To Adias a sheep． 23．- Hu－i－a Ell - A－a－i－na－hu－e［EY］ - H $^{6} \mathrm{Ar}-\mathrm{di} \mathrm{T}^{7} \mathrm{i}-\mathrm{e}^{8}$ YY
65.
（ 7 IV $-y^{\prime}$ A－a－i－1na－）lu－e
66.

To Uias a sheip．To the god of Aais 4 sheep．To Ardis 2 sheep．
${ }^{1}$ So Layard．
${ }^{2}$ So Layard．
Omitted by Schulz．
若 S Shulz omits．

[^160]
## 


To the god of Inuas 17 sheep.
 bad-di-nii ma-ni-ni $\mathrm{ul}^{2}$-gu³ ${ }^{3}$-se
67. (-卉 Khal-di-ni bad-di-ni - - $) ~ Y \lll=$ -bad-di-ni (ma-ni-ni ul-gu-se)
To all the Khaldises, the gods, food for all (and) each (and) shields

| Is-pu-luu-i-ni-c-khi-ni

Y Is-pu-(hu-i-ni-e-khi-ni)
by Ispuinis, son of Sarduris (and) Menuas son of Ispuinis.
25. $Y$ Is-pu-hu-i-ni-s $Y$ - $Y$ - $Y\left\rangle\right.$-du-ri-khi-ui-s a-da ${ }^{5}$
( ${ }^{(1)} \mathrm{Me}-\mathrm{nu}-\mathrm{a}-\mathrm{s} \quad$ Is-pu-hu-i-ni-Khi-ni-s
i0. ( $\left(\right.$ Is-pu-hu-i-)ni-s $Y-\mathcal{H}-Y Y<Y$-(du-ri-khi-ni-s a-da ${ }^{5}$ 71. ${ }^{\text {Y }}$ Me-nu)-hu-a-s Y Is-pu-(i-ni-khi-ni-s)

Ispuinis son of Sarduris, and Menuas son of Ispuinis
25. Si- 薜 $\boldsymbol{y}^{6}-\neq$ Khal-di-ni bad-di-sa-ni ḳa-ab-ḳa-

i2. (. . . - * Khal-) di-ni bad-di-(sa-ni (73) ḳa-ab-ḳa-ri-da-)ni e-ha - -
...... to the Khaldises of every kind place of approach this to the gods of the nations

[^161]26. YYY $=Y\left\langle\left\langle\lll E Y\right.\right.$ hu-i nu(?)-su ${ }^{1}$ la-ku-ni a-lu-kid ar-di-ni khu-ru-la ${ }^{2}-1 .{ }^{3}$
73. i e ti ip na
(74) khu-ru-la-a-i

3 oxen, 30 sheep, and the ... . they have given (?) in any case publicly for sacrifices (?)
26. (si-li)
gu- ${ }^{-1 i}$
ti-su-ul-du-li-ni
74. si-li gu-li (ti-su-ul-du-li-ni)
after dawn, after dusk (?), after dark (?).
27.
$Y$ Is-pu-hu-i-ni-s $\quad Y$ Śar-du-ri-khi-ni-s
| Me-nu-hu-a-s Y Is-pu-hu ${ }^{\text {s. }}$-(i-ni-khi-ni-s $=Y$ ) ul-di-e su-khe te ${ }^{6}-\mathrm{ru}-\mathrm{ni}-\boldsymbol{y}^{7} \quad \mathrm{Khal}^{7}$-di-e
75. (Y Is-pu-hu-i-ni-s) 76 ( $\left.{ }^{( }\right)$Śar-du-ri-(khi-ni-s

Y Me-nu-hu-a-s $Y$ Is-pu-hu-(i-ni-khi-ni-s $=1$ ) ul-(di-e su-khe te-ru-ni - Khal-di-e)
Ispuinis son of Śarduris (and) Menuas son of Ispuinis $^{\text {s }}$ monuments these have set up to Khaldis;
27. lu-hu-e-se(? $)^{8}$
(28) $=y_{y y}^{Y \gamma}-\mathrm{a}-\mathrm{ri}$ su-khe te-ru-ni
hu-i gi-e-i-is
77. (lu-hu-e-se (?) EYYY) -a-ri-e (su-khe te-ru-ni hu-i gi-e-i-is)
the $\left\{\begin{array}{l}\text { gifts (?) } \\ \text { works (?) }\end{array}\right\}$ of the men these have established and the images
28. $-\boldsymbol{\gamma}$ ( $(\lll<$ gi-) is-hu-ri

Y Is-pu-hu-i-ni-s
Y- Sar-du-ri-khi-ni-s
78. (-斗 Y《<< gis-su)-hu-ri-e
( $(\boldsymbol{)}$ ) Is -(pu-hu-i-ni-s
Y-* Sar-du-ri-khi-ni-)s
of the mighty gods. Ispuinis the son of Sar-duris
${ }^{1}$ So Layard.
2 So Layard.
${ }^{6}$ So Layard.
7 So Layard.
9 Layard has incorrectly.
${ }_{6}$ Schulz has $l a$, incorrectly.
${ }^{8}$ So Layard, doubtfully.
29. $Y$ Me-nu-hu-a-s bur-ga-na ${ }^{1}-n i$
79. ( ( Me-nu-hu-a-)s (bur-ga-na-nii) (and) Menuas the son of Ispuinis altar
29. su-khe te-ru-ni te ${ }^{2}-\mathrm{ra}^{2}-\mathrm{ni}$ ar-di-se $a$-se $=Y \quad Y \lll<$ hu-i al-di-ni-i-e
80. (su-khe te-ru-ni te-ru-rui
ar-di-se) a-se $=Y \quad Y \lll<$ (hu-i al-di-)ni-i-(e)
this have set up; they have set up the regulations (and) the gods of wood and (stone?)
29. $\mathrm{sal}^{3}-\mathrm{du}^{3}-\mathrm{hu}-\mathrm{li}$
(30) - Khal - di - (i) - e

## 

81. (sal-du-hu-li ha-)a-li YYY Y=II Y<<<-2Y Khal-(di-e

## YYY

after......; to Khaldis 3 sheep to be sacrificed (and) 3 sheep


-     * Khal-di-e YYY Ey
 YYY EYY - Khal-
to the gods of the peoples, the gods of the monument after the spring; to Khaldis 3 sheep
 82. di)-e ur(?) . . . . . . . . . . . . . . . . . . . . . . . . (me-su-) li
to be sacrificed, (and) 3 sheep to the gods of the peoples, the gods of the monument after the summer ;
${ }^{1}$ See note on III. 1.1 : So Layard.
${ }^{3}$ So Layard. Probably we should read si for sal, as in VII. 5.
4 Layard has ta, Schulz has ta. The correct reading is given by Mr. Rassam's squeeze of No. VII. line 6, where we have zYYY um or dub. I have no means of deciding which of these two ralues the Vannic scribes retained for the character, but it wqs more probably um. At the same time $=1$ was gis, and not $i z$.


83．（ha－a）－li YYY Y Y Y一二审 Y \ll YYY Y（Y）
to Khaldis 3 sheep to be sacrificed，（and） 3 sheep to the gods of the peoples
31．du－si－si ${ }^{1}-\mathrm{i}-\mathrm{hu}-\mathrm{li}-\mathrm{ni}$ me－i－e－si me－tsi ${ }^{2} \mathrm{el}^{3} \mathrm{mu}^{3} \mathrm{tu}(?)^{3} \ldots{ }^{4}$
83．（du－si－si－i－hu－）li－（ni（84）me－）i－e－si me－（tsi ．．．．．．．．． after the winter．Their ．．．．．．．．．．．．．．
31．a－nu－hu－ni
83．．．．．．．．
they have ．．．．
［A blank line intervenes between the two duplicate texts．］


## Philological Analysis．

The context of the inscription，as gathered from the idco－ graphs it contains，shows that we have a list of the sacrifices to be made to the various gods of the Vannic state，and that the names of the deities must consequently all be in the dative ；see e．g．lines 5，6，7，etc．This allows us to deter－ mine an important part of Vannic grammar．The datives terminate in－ie as Khaldie，－nic as Atbinie，－ue as Selitue， －nalue as Dhuspanalue，－$\hat{a}$ as Kharâ，－ae as Teisbae，－ni as Khaldini，or－nini as Khaldinini．Now as we have alrcady seen that the nominatives singular of Vannic nouns may end in cither－as，－is，or－us（as Menuas，Ispuinis，alus），it is clear that there must have been thrce classes of nouns，distinguished by the final vowel of the stem preceding the case－ending，of which the datives singular were respectively $-a c$ ，contracted into $-\hat{a},-i e$ ，and $-u e$ ．As ac could be contracted into $-\hat{a}$ ，we

[^162]may expect to find that $-i e$ and $-u e$ could also be contracted into $-\hat{\imath}$ and $-\hat{u}$.

1. Khaldie, as we have just seen, is a dative. This and most other Vamic inseriptions show that Khaldis was the supreme god. He was not, however, either the Sun-god or the Moon-god, who are distinguished from him (lines 3, 4). Sargon tells us that the god Khaldia, whose image he carried away from Muzazir, was the god of Ur'sa, king of Ararat (sce p. 348).

Eurie, from its position and termination, must bo an adjective agreeing with Khaldic. The meaning is fixed by a comparison of the duplicate texts lii., from which it appears that it was equivalent to - II ' lord.'
'Throughout the inscription, with one exception, the names of Ispuinis and Menuas are coupled together in the nominative without a single character being interposed between them which could denote the conjunction. We inust therefore conclude that the Vamuic language made little use of conjunctions, the flexions serving to connect words together, and the words which follow the first substantive being all regarded as adjectival and in agreement with it.
2. In this way alone we can explain how it is that no difference is made in the termination of the verb, whether it follow one or more nominatives. Here we have teru-ni used as a 3rd pers. plural, although elsewhere it expresses a 3rd pers. sing. (iii. 1). Teru-ni is from a stem teru, which is of frequent occurrence in the inscriptions. Its signification is fixed by li. 3: ini $=\boldsymbol{Y}$ du teruni ' this monument he has set up.' As we shall see, it cannot mean to engrave or inscribe, another word (kuguni) being employed in this sense. For ter-tu see xxi. 5.
$i n i-l i$ is plainly the demonstrative $i n i$ with a flexion. The same flexion is attached to zaduali, and we must therefore couple the two together as one phrase. Zadu is 'to build' or 'make' (iv. 1). We must notice that it is spelt zatu in the duplicate text, the harder pronunciation being probably the more archaic one. It is possible, as we shall see, that the two
verbs $d u-b i$ and $t u-b i$, which have similar meanings, are originally one and the same, and we shall find more than one instance in which $t u$ in composition is written du. Similarly after $s$ the suffix $d i$ became $t i$ or $t e$, as in Bianaste for Bianas-de. Between inili and zaduali comes the ideograph of 'gate,' in the duplicate text 'gates.' Just as the acc. suffix -ni is not attached to the noun which follows $i n i$, so here the suffix $l i$ is not attached to the word for 'gate.' We have a similar expression in xvii. 4, 5: - khal-di i-ni-li $-l i$ si-di-is$t u-a-l i i-n i=Y Y Y Y$ EY-si-di-is-tu-hu-ni '(Menuas), after restoring this gate, has restored this palace.' Here, however, the suffix is attached to the substantive as well as to the demonstrative and participle. The two parallel expressions leave no doubt as to the sense we must attach to the construction. The suffix -li, accordingly, must mark a perfective case, like the ablative absolute in Latin; the participle of the verb is placed at the end of the sentence and takes the same suffix, inserting the vowel $a$ between the latter and the stem, from which we may infer that the nom. sing. of the participle would be zaduas, sidistuas.

No change is made in either demonstrative or participial form, whether they are joined with a singular or with a plural substantive. The acc. ini, therefore, may be considered to be indifferently singular and plural.

We cannot read ardis a nominative sing., since the sense requires an acc. of the olject following the verb, and the form will therefore be ardise. In line 29, we once have ardise following teruni, and in xix. 6 ardise appears again. Now, as the vocabulary will show, we frequently find hase or hase $Y \lll<$ (xlix. 9) 'men,' and YEY suse $Y \lll<$ 'sheep' following a verb in the accusative; and as the ideograph of plurality is affixed to them, while we once find su-hu-se-e (xlviii. 29), it is clear that -e denotes the plural accusative of stems in $-i$. On the other hand, we also have pakhini 'oxen' as an accusative plural. Lutu 'women,' we strall see, is the accusative plural of lutus.

- 4 Ay is the Sun-god, as in numberless passages. In the two duplicate texts xx. 16 we have the nom. कy Ey-2 of the one text corresponding to $-y$-mi-s in the other, from which we may infer that the name terminated in -mis. Similarly we lave $-y$ Ey-ni-s in xxx. 33, and -y $\boldsymbol{x} \boldsymbol{y}$ -ni-di in 1. 8. The full name is given in l. 39, where the text is unfortunately not quite certain, but seems to read Ardinis. In Assyrian sy signified 'the day' as well as 'the sun,' and this must be the meaning of the ideograph in such passages as xx. 16 (see also xlviii. 10). As the compound ideograph is joined with the ideograph of 'month' in the present passage, we can have no licsitation in rendering it here also by 'day.' The two syllables -ni-ni are attached to it in the duplicate text. With this we must compare the adjectival dative Khaldi-ni-ni 'to those belonging to Khaldis,' and explain the word as the dative plural of an adjective in $-n i$ meaning 'diurnus.' The word would consequently signify 'for what belongs to the day,' i.e. 'day by day.' -x Ay and atsus are coupled together without a conjunction, like Ispuinis and Menuas above.

Atsus is explained by the ideograph which precedes it. As it consists of two syllables, we may assume that it expresses the whole word, and not merely the final portion of it, since the rule in these Vannic inscriptions is either to write the word in full, or to give merely the last syllable of it, if nothing more than a phonetic complement is intended to be expressed. Thus we have either the full word it ebanie 'country' ('countries') or the last syllable it-nie; never ${ }^{4}$-ba-nie. Atsus will be the same case as that of the adverbs sidis or nulus, and since sidis is contracted from sidisi, it would seem that these durative cases (as we may term them) were originally genitives singular.

Mamus is clearly an adjective in agreement with atsus. The context shows that it must signify 'each' or 'every.' The inscriptions furnish us with other forms of the same pronoun; manu acc. pl. xxx. 17, xlix. 14; manuda, local case liv. 5;
manini, dat. pl. v. 24. Comp. mes 'he,' mei 'of him,' mani 'him.'
3. $\rightarrow$ H 'the Air-god' is transliterated Te-e-i-s(e)$b a-a-s$ in the duplicate text $x x .15$. Accordingly we have the
 (Teisbae), line 51.

The compound ideograph -1 竍 given in a list of donestic animals, after the sheep, W.A.I. ii. 44, 3, 13. It literally signifies 'small offspring,' and as it is here preceded by the ideograph of 'sheep,' it is plain that 'lambs' are intended.

Nipsidi is an adj. agreeing with Thaldie, perhaps compounded of $n i p$, and śid, the latter being again analyzable into the root $s i=$ and the suffix $d i$ (as in Khaldis). ${ }^{1}$ What it means I have no means of guessing. Apparently we have the same word in xix. 7, Khaldie(e) (ni-ip-)śi-di-e 二-e. Here the ideograph -, with the phonetic complement $-e$, takes the place of the hali of our text. Further on in our present inscription (lines 29 and 81,30 and 81,31 and 83 ) we find hali in the duplicate text answering to in the other text. Now I represents in Assyrian the verb dhabakhu 'to cut the throat of a lamb,' 'to sacrifice,' and this is plainly its meaning in the passages with which we are dealing. Hali will be the dative of a noun halis 'sacrifice.'
4. Numberless passages in the historical inscriptions, to which we slall come hereafter, furnish us with the words $\{$ $p a-k h i-n i Y \lll$ and $\operatorname{su}-(u)$-se $Y \lll<$, where the ideographs show that we have before us the plurals of the Vannic words for 'oxen' and 'sheep.' Susé cannot be merely the phonetic complement of the ideograph Ely because (1) it consists of more than one syllable, (2) it is always so written without any indication of another syllable preceding it, and (3) it is conjoined with palkini, which is obviously a full word.
$I_{p p u e}$ is an adj. in -ue like the adjectives in -nalue which we

[^163]shall consider presently. Just as Dhuspanalue signifies 'to him who belongs to (the city of) Dhuspas,' ippue ought to signify 'to him who belongs to ippus.' 'Tlie form of tho sentence makes it evident that the word is an epithet of the dative Teisba and is coupled (without a conjunction) with Khaldie. It is clear from xliv. 13 (on which see note) that it means 'inundating,' an epithet applied to the Air-god in the Assyrian inscriptions.
5. Khudhuinis is formed like Ispuinis by the help of the adjectival suflix -ni. Compare k/uulhu xliii. 12, 78 , xlviii. 28, where it seems to mean 'a portion.'
6. IIuas, according to line 20, was the god of the gate of the city Nisiadurus.
7. With Diduainis or Deduainis compare didu-li-ni (xvi. 3).
7. We may accept Selardis as the correct reading of the name given as the equivalent of $\rightarrow \boldsymbol{\psi}\langle\langle\langle$ ' the Moon-god' for the reasons assigned in the foot-note. The root ar or aru means, as we shall see, 'to bring ;' from this ardis would be formed by the individualizing suffix -di, which denotes a noun of agency, as in Thal-dis from khal; ardis being accordingly 'the bringer.' If so, sel-ardis ought to signify 'the lightbringer,' in which case sel- would be 'light.' See notes on lines 26 and 23 .

Fhaldinahue is evidently a dative of an adjective formed from Khaldis by the sulfix -nahu-. Further on we shall find similar adjectives formed from the names of cities, and placed before the word 'god,' showing that they must signify 'to the god belonging to such and such a place.' Above (line 4) we have had an adjectival ending -ue (from nom. -us), and elsewhere we get the adjectival suffix -na, as in $-\boldsymbol{Y}$ Khaldi-na, Z-ry ' the gate of the land of Khaldis' (x. 4, xi. 3), $->$ Khaldi-na-ni $=$ baddi-ni'for all the gates of the land of Khaldis' (xi. 2). Consequently Khaldina-ve-s will be formed from the adjectival Khaldinas. Since the suffix lue- ( $e e-$ ) does not of itself imply the idea of locality, as is clear from the word ippue above, the territorial sense of adjectives in na-ve must lie in the first suffix -na. This is confirmed, as we shall
see, by the use of these adjectives. Above (line 4) -ue denoted the dative sing.; here the ideograph attached to $\quad$-lil shows that it also represents the plural.

- $l i$ is probably the ideograph -a 'a corpse,' 'to die,' with the phonetic complement-li following it. Compare the name of the Aralez and the Accadian arali mentioned on p. 415.

8. With the termination of Elipris comp. that of Lut-ipris. Ipris may be formed by the help of the adjectival suffix -ri (as in sekheris 'alive ') from ip 'a flood.' The god Eliahas occurs in line 16.
9. As we shall see hereafter, alus is 'whoever,' and uru-da 'family.' Siuali must be formed like saduali in line 2, from the stem siu, which we learn from the historical inscriptions meant 'to carry away.' Uru-li-hue is a similar formation to Khaldi-na-hue, the suffix $l i$ taking the place of na, and the pronoun alus is united with it in a sort of compound. Consequently the exact rendering will be 'to (the god) belonging to whoever (may be) to the offspring when they have been carried away.' This may possibly relate to a legend of Vannic mythology, or may lhave a more prosaic reference to a god invoked to protect captive children.
10. Eri-nas seems to be a derivative from the same word as the royal name Eri-menas (lii.) and the name of the city Eridias or Irdiyas (line 16).
11. With Kharas compare the reduplicated kharkharu' to dig up' or 'destroy.'
12. Artsibaddinis is compounded with baddis 'all.' With the first part of the word compare the name of the city Artsuinis (line 15).

Arnis is connected with arniusinida, for which sec line 17.
Khaldini is shown by the numeral which follows to be a dative plural. We may notice the agrement of the numeral adjective which follows with it.

For asie sce note on iii. l. If it is in the genitive singular, we should have expeeted it to precede its governing noun. On the other hand, if it were an adjective, it ought to be asinie. In line 24 also the genitive follows its noun.

Alsuisie is an adj. formed by the suffix si- agreeing with the dat. pl. Khaldini. Compare diousie in the next line. Besides alsuisie we find alsuini formed by the adjectival suffix -ni and alsuisini dat. pl. of the adjective in si- agreeing with K Kuldinini. The meaning is fixed by the frequently-recuring title of the Vannic kings, in which << alsuini takes the place of the Assyrian sar cissati 'king of multitudes.'
13. I have no clue to the meaning of the adjective dirusie.

The determinative by which aśi is preceded shows that it signifies a class of persons. In xliii. It we have a-śi$Y \lll-i-e$, from which we learn that the full form of the ace. pl. ended in -ie. The exact meaning of the word is established by xxx. 20. The analogy of the datives plural would lead me to read the word in the passage before us aśini. We must notice that Thaldinahue is here dative plural, not singular. ' The horsemen of the land of Khaldis' must be some class of divine beings.
14. Dhuspas, the capital of the Vannic state, now Tan, whence the Lacus Thospitis of classical geography and the modern Tosp. See p. 388. It is cmions that Tiglath-Pileser calls the city Dhuruspa. As the name is always written Dhuspas in the native inscriptions, the Vannic $r$ when flanked by rowels must have had a very soft sound, and lave tended to disappear in ordinary pronunciation. Comp. Cisester for Cirencester. Dhuspa-ni-nahue is formed not from Dhuspas like Dhuspa-nahue, but from the adjective Dhuspanis 'Dhuspanian.'
15. - $-Y$ Y-ni must be the dative pl. of an adjective formed from the word for the city, which, as we shall see hereafter, was inamis or inanis. Similarly Artsuinini is the dative pl. of the adjective Artsuininis from Artsuinis. As this city is mentioned in an inscription (xi. 1) which comes from Sirka about three miles east of Van, we may assume that it stood here.

Khaldinidasie is a dative pl. of an adjective in s like alsuisie. $D a$ we have seen ( p .460 ) is the localizing affix, while $-m i$ denotes adjectives formed from substantives. The word therefore is to be analyzed into Khaldi-ni-da-sie 'to those who belong to the place belonging to Khaldis ' or 'the Khaldi's.' Comp. the
formation of Dhuspa-ni-nahue above, as well as khura-di-ni-da ' a eamp ' (xxxii. 4, ete.).
16. Eridiani is the dat. sing. of the adjective in $-n i(s)$ from Eridias. Irdiya will be the genitive of the substantive.

Huisini may similarly be the genitive of the substantive Huisinis ; but I am inelined to regard it as the dative sing. of the adjective in -nis, Huisinini being the dative of an adjective formed from the adjective Huisinis 'Huisian.'
17. Arnie is a genitive-dative like asie in line 12 . The root is perhaps aru 'to bring.' In the historieal inseriptions we find a derivative arniusinida, a diseussion of which I must reserve at present, merely stating that it seems to signify 'the citadel' of Van. Literally it would be 'the place belonging to that which is fortified,' in which case arnis will mean 'a fortress.' Arnuyada has nearly the same signification in xxxi. 4, xlv. 34. We must notice that in line 12 , the god Arnis precedes 'the four Khaldises of the house.' Usmasie is a dative pl. of an adjective in si formed from a substantive usmas. In the later inseriptions it is the stock epithet applied to ' the children of Khaldis,' and I have rendered it 'gracious' not because I have any grounds for doing so, but because some general term of the kind was needed. On the whole, I am most inelined to believe that it meant 'belonging to the eity,' coming as it does here between two epithets, which refer one to the fortress, and the other to the wall of a town ; but, as I have no means of verifying this belief, I retain the more indefinite 'graeious' in my translations. Susinini is a dative pl. of an adj. in -nis. In xvii. Menuas deseribes his rebuilding first 'this suśi,' then 'this gate,' and finally 'this palace.' This fixes the meaning of the word either to 'foundation platform ' or to 'wall.' The first meaning, however, is excluded, beeause ( 1 ) we should then have expected the ideograph EAY, (2) we have no reason for thinking that in a mountainous country like Armenia a palace would be bnilt on a platform as was the ease in the plains of Babylonia, and by way of imitation in the relatively level country of Assyria, and (3) a gate wonld not be built without a wall, the previous eonstruetion of whieh it presupposes. In the inscriptions of Argistis and
his son S.arduris, a word snsini occurs, which I believe is the same as susi, but with the initial sibilant softened, just as the softer sudukinli takes the place of the older sudlunkui in a text of Śarduris II. (1. 27). Thus we read arminsinida suśini aadubi 'the eitadel (and) wall I lave built' (xxxviii. 24, etc.), ' 14 palaces 100 cities suśini (and) villages I took' (1. 16), '2:3 cities suśini $Y \lll<$ I took' (lv. 13). Here suśmi must obviously signify 'fortresses,' and the analogy of the Latin muenia makes it probable that tho word first meant 'wall,' then 'fortified wall' and finally 'fortress.' It is possible that if susinis and susis are originally one and the same, the sense of 'wall' of any kind remained attached to the first, while sus'is acquired the special signification of 'fortificd wall' or 'fortress.'
18. Ebani-nahue will bo derived from a substantive cbanis, which is of frequent oceurrence in the inscriptions. It is always preceded by the ideograph of 'country' and as we have it e-ba-ni, etc., interehanging with it-ni, etc. (e.g. xl. 16, 17, and xliii. 34), it is clear that it is the Vannic word for 'country,' 'land.' Ebanis seems to have been originally' an adj. in -ni, which has itself come to be used as a substantive like inamis 'a city,' and Biainas 'Van' (which must primarily have been Bini-na-s 'belonging to the land of Bias'). Hence we find eba-na (xlix. 26), and eba-hu-sie (xi. 5) as if from ebas.
19. It will be noticed that whereas the singular $\rightarrow$ 'god' follows the adjective which agrees with it, the plural $\sim Y Y \lll \ll$ precedes.

The collocation of the ideographs expressing 'the gods of the nations' shows that the genitive might follow the governing noun (as in line 17 above). This seems to have been preferably the ease with a plural noun.
20. Niribi-the reading is certified by l. 20-occurs again in the sepulchral inscription xxi. 9. Here, as we shall see, the word appears to signify 'corpses.' The termination is the same as that which we find in atibi 'thousands' (xxxi. 15), and asibi or azilie.

We have already had the god Huas in line 6.

Babanahue is used absolutely like an adj. in Latin, without any substantive being expressed. A land of Babas is mentioned in connexion with Melitene in l. 14, another in connexion with Bustus (on the south-western shore of Lake Urumiyeh). The Babas meant here must have lain within Vannic territory.
21. As the name of the god Harubainis intervenes in the middle of a list of geographical deities, I fancy the word must mean 'belonging to the country or city Harubas.' For the diphthong comp. Nalainis (line 6), Deduainis (7), Khalrainis (8), and the name of Biainas. Dhuspuas must be distinguished from Dhuspu-nahus 'the (god) of the land of Dhuspas' (line 14). Dhuspuas (formed like Menuas, tarsuas, etc.) is rather 'the God of the people of Dhuspas,' as Assur was of the city of Assur and the country of Assyria. Consequently Babas, in the same way, will be 'the god Babas,' as distinct from 'the god of the country of Babas' in line 20. With the latter we may perhaps compare the city of Babite, which adjoined Zamua (W.A.I. i. 20, 24), or the town of Babutta in Ararat (Biaina), captured by Tiglath-Pileser II. (Lay. 18, 27).

For the proof that auis or aris is 'water.' see $x x .19$. Its association here with ainis 'earth,' indicates an elemental deity. In the formula of execration we find at the end, nara auie uludaie (e.g. xx. 19), 'to fire (and) water may they consign.'

Ainis means 'earth' or 'dust' in the execration formula (e.g. xx. 12), where the phrase alus ainiei inida dudaie, 'whoever shall destroy this place with dust,' corresponds with the Assyrian sa ina epiri icatamu, 'he who (this) with dust shall cover.' Ainis seems to be formed by the adjectival affix -ni, so that it would properly denote 'belonging to the earth,' i.e. 'dust.' In this case we should expect to find a simple substantive ayis signifying ' earth.' Now in xxv. 6 we actually have $Y$ Menuant aie, where the most natural, if not the only possible, translation is 'in the land of Menuas.' From ayis we shonld get aias 'he who is of the earth,' and this is the very word which we meet with in the present passage as the name of the earth-god, which naturally follows that of the
water-god. We may therefore assume that aiis or ayis meant 'earth,' aias or ayas 'the earth-god.'

That Sarlis is the right reading is proved by liii. 2. According to J. Lydus (de Mens. 3, 14), oápoıs in Lydian signified ' the year,' and represented the Sun-god of the Lydian capital.' The ancient name of what was formerly the first month of the Armenian year (August) was Navasard 'the new sard,' from which we may gather that at one time sard meant 'year' in the Armenian language. The word, however, is not Aryan, and it may therefore be regarded as derived from the language of the people who inhabited the shores of Lake Van before the arrival of the Aryan Armenians. In Ossetic sïrd( $\rho$ ) is 'summer.' It is curious that the Armenian hori and sahmi, 'September' and 'October,' closely resemble the Georgian numerals ori 'two" (Mingrelian shiri) and sami 'three,' while mareri 'May' is plainly mareli, the Georgian name of the 10th month. Sardis is formed like Khaldis and Selardis by the help of the suffix $d i$.

The ideograph < $\Sigma$ is explained in the syllabaries (W.A.I. ii. 2, 386) as arkhu (Accadian ab), the Arabic $\dot{\boldsymbol{j}}$ ' 'an antelope.' From W.A.I. iv. 9, 26-27, compared with 28, 9-10, we learu that $\langle=$ also had the value of rimi (rimu) in Assyrian, from which Prof. Delitzsch has rightly gathered that it had the signification of 'wild bull.' Accordingly in a list of animals (IV.A.I. ii. 44, 10) =Y\& $\langle=Y \lll<$ comes between $=1 \& \lll<$
 W.A.I. ii. 32, 50 sq. the compound ideograph $\langle=$ is stated to have been pronounced hunu and utul in Accadian, and is rendered in the Assyrian column by utullu (so in W.A.I. v. 12, 40), $=$ having in Accadian the value of $u$, and that of tul or dhul. In W.A I. v. 12, 38, 'the herdsman' of the utullu is mentioned. From a comparison of these passages I conclude that the was rimu 'the wild ox,' but was

[^164]specially used of the animal when it had been partially tamed and sent to pasture.
22. In Tsinuyardis we have the same element ardis 'bringer' as in Selardis. With Silias compare the locative śiluadi (xxx. 15, l. 24).
23. For Ardis 'the bringer,' or 'arranger,' see line 7.

Aai-nahue implies a city or country Aais, as Inua-nahue does a city or country Inuas.
24. Baddi-mi is a dat. pl. agreeing with Khaldi-ni. In line 25 we find Khaldi-ni baddi-sa-ni, where the pronominal sa (as in sa-da 'there') makes its appearance. In xxx. 17, we have bad-di-ma-a-nu '. . . each,' the suffixed manu signifying, as we have seen, 'each.' Here the stem baddi can hardly have any other meaning than 'all,' so that the phrase will mean ' all and each.' Consequently the dat. pl. baddini manini in the present passage will also be 'to all and each.' Bauldisa(ni), I conjecture, must be rendered 'of every kind,' literally 'to all there.' Badi-ni-ni in xliii. 2, may be the same word. Comp. the name of the god Artsi-baddinis above (line 12).

The irscription on the shield of Rusas, where we have algusiyani, shows that ulguse must signify the sacred "shields," which were hung up on the walls of a temple in honour of the gods. The genitives Ispuini and Nenua indicate that the shields were dedicated by these kings. The two genitives are subjective, not objective, and are accordingly placed after the governing noun. In xi. 2, the word occurs again. Here we read ( $-\boldsymbol{Y}$ ) Khaldi-na-ni $=-\underset{Y}{\text { Y }}$ baddi-ni ulgu(se) 'for all the gates of the land of Khaldis shields.'

Ispuini Sardurikhini is the genitive after ulgus. The final -ni of Śardurikhinis is retained, as -ni in Ispumi is not the accensatival suffix, but part of the word itself.

25 . For the first and last time a word comples the two nouns Ispuinis and Mennas together, which must therefore be the copulative conjunction. But I find no other instance of the use of ali in the inseriptions. We must therefore assume that the copyists, as frequently elsewhere, havo confounded da
and $i i$ together, and that the word is really ala, which, as we shall see, signifies 'and.'

Ihabkaridani is the local case of a noun kablaris with the accusatival affix attached to it. The meaning of the word is indicated by xli. 17, $-=Y Y$ (Bi-khur-ra-)a-ni tan-ab-ka-a-ru-lu-u-hi, which the context shows can only mean 'the city of Bikhuras I approached,' and 1. 22, istidi ulkhudi $-=$ YY Melidhani ķabkuruliui 'in this campaign after the city of Melitene had been approached.' So in $\mathbf{x l}$. 80, we lave 'the people kablarubi I approached.'

Eha is proved to be a demonstrative pronoun by xiii. 3, Y Memas Y Ispuinikluinis sidisi-tu-ni cha =YYY EY- eha - =YY Menuas son of Ispuinis has restored this palace (and) this city:' In every other passage in which it occurs it precedes its noun, and since in most of them (xliii. 16, 78 , xlviii. 29) it is used as a plural, I am possibly wrong in construing it here with kabkari-da-ni, and not rather with the words which follow (' to these gods of the nations').
26. The space of two lines which precedes this line shows that there must be a break in the sense here. However the two texts do not agree, and consequently there seems to be something wrong in our copies.

That ui (ri) means 'and' is plain from sereral passages (see line 29, xxxvii. 12).

If uusu is the right reading here, which is unfortunately doubtful, it will be the plural of a noun musus, like lutu, which may perhaps be connected with mus 'a king.' The meaning of nus is proved in the following way. The common phrase in the historical inscriptions which answers to the Assyrian 'royal city' is $==\mathbb{Y}\langle\langle m$-śi or $\langle\langle-s i i(x x x v i i .12)$, where << uuśi is the acc. sing. of the adjective, formed by the suffix ś from a stem mu. That nuśi must be the full word, and not its last two syllables only, is made clear, not only by the rule alrealy mentioned that the phonetic complement of an ideograph is represented by one syllable not by two, but also by the variant form <<-sí, where only the phonetic complement
is expressed. If further proof were wanting, it is found in xxiv. 8, where we read the full word $n u-u-s$ (-2 Sari-s nus 'Śaris the queen'). Genders, it must be remembered, were unknown to the Vannic language.

Lakuni is the 3rd person pl. of a verb. But I have not found the stem laku elsewhere. Possibly it is a softened form of laku ' to give.'

Alukid is an adverb formed by the suffix kid or kit from the stem alu which naturally connects itself with alus 'whoever.' See note on inuki No. III. Just as inuki is formed from the stem inu, alukid would be formed from the stem alu and so signify ' in whatsoever case.'

For ardini see l. 39, and xlv. 23.
Khurulai is the genitive of a substantive khurulas like Menuai (xi. 4, xxii. 3). The word is not found elsewhere, but may be connected with khuradis 'a soldier.' In this case it might mean 'sacrifice,' just as in Assyrian dictu, literally 'slayable,' signifies 'soldier.' The termination is the same as in gislais 'mother,' and burga-la-da, xxxi. 3. ${ }^{1}$

Si-li is the perfective case of the noun sis. As we lave seen (line 7), Selardis ' the moon' is probably a compound of sel ' light,' and ardis 'bringer' or 'arranger.' Now se-l is possibly a derivative from the stem si-. At all events, I believe we must render si-li 'after day-break ' or 'dawn.' See line 29 (salduli), vii. 5, and xl. 72.

Gu-li, which is coupled with si-li, can then hardly signify anything else than 'after dusk' or 'night.' Gus, however, does not occur in any other inscription.

Tisuldu-li-ni I cannot explain. The final suffix is like that of dusisiu-li-ni (in line 31, upon which see note), and agrees with ardini, while $l i$ is the suffix of the perfective case. We find -ni attached to -li again in didu-lini urpu-lini (xvi. 3). The word seems a compound, made up of tis of unknown meaning, and uldu, which may be the same as uldi ' a monument.'

[^165]27. The meaning of the latter word (uldic) is fairly fixed by the context in this and the following lines. It is rendered certain, however, by xxiii. 2, where we have $Y$ Menuainei र- gislaie Taririai ini=Yuldi for the mother of Menuas this monument.' The determinative prefix $=Y$ proves that the monmments of Van were of wood before stone came to be employed in imitation of the Assyrians. This may aceount for the loss of all monuments prior to Sarduris I., which may nevertheless have existed and been inscribed with native characters, possibly resembling those of the Hittito inseriptions.

Sukhe can only mean 'these.' It will be observed that it follows its nom, and is declinable, being, like its noun, in the accusative case plural.

Luese ought to be another accusative plural from luesis. The verb lubi occurs in 1. 18, where, however, the sense is not clear. On the whole, I am inclined to think the signification of 'works' the most probable that can be assigned to luese.
28. The ideograph shows that the word which terminates with -are denotes 'men.' According to the usual rule observed in these Vannic inscriptions, as also in the Assyrian texts, -are should be the full word and not the phonetic complement. But I doubt whether the rule is followed in this instance, though I have no idea what the full word was. On the other hand, in liii. 6, we have $Y Y_{Y Y}^{Y} Y \rightarrow-r a-n i$ in the accusative plural, which may perhaps imply that $-r(a)$ only was the phonetic complement, the initial $a$ of the present text being the beginning of the word. A word of similar formation is ibirani (xix. 11, xxx. 18). Since -arê implies -aris (possibly an adj. in -ris like sekheris), the $a$ of -ra-ni must be due to the analogy of forms in -a (ebania, etc.).

Gieis, though coupled with an acc. pl., must be a nom. sing., at all events so far as its form is concerned. Perhaps we should translate 'and (there is) an image of the great gods.' Possibly, however, $\wp Y$ has been written by the scribe in mistake for

Gissurie or gisuri, an adj. in the dat. pl., is constantly used in the historical inscriptions as an epithet of the gods, and is plainly the word required here. It must signify 'mighty' or 'great,' and the phrase found here corresponds with the Assyrian formula 'the great gods,' which occupies a similar place in the inscriptions.
29. Sulke is here accusative singular. Just as in Y Menuani Y Ispunelihi the adjective which follows the substantive drops the suffix $-n i$ which has already been attached to the substantive, so after burganani we find sukhe, not sulkheni.

Ase is a difficult word to interpret. It is the accusative pl. of asis, and asis, as we have seen, meant 'house.' But 'houses' is quite out of place in the context, and we should have expected the ideograph which denotes the same idea to have been written either in the first or in the second text. In the following line, ase occurs twice after the ideographs denoting 'peoples,' whereas in line 31 it is omitted in an otherwise similar passage. This would lead to the supposition that ase must be equivalent to 'gods.' Now the inscriptions of Argistis contain the phrase $\rightarrow$ Y $\langle\ll-a s-t e ~ B i a n a s t e$, where the context shows that we are dealing with a plural locative, and that -te consequently stands for $-d e$ or $-d i$. Bianaste must be a contracted form of the adjective Biana-si-de, but this explanation will not apply to the preceding word, as the adjectival suffix -si has no place in a substantive like 'god.' I thercfore look upon -aste as representing the plural -ase-de from a sing. nom. -asis. 'The question is whether this is the whole word that signified 'god,' or only the latter portion of it. In favour of the first supposition is the fact that, often as the phrase occurs, we never find a fuller form than aste. On the other hand, it would be a little strange if the words for 'god' and 'house' both had the same pronunciation in the Vannic language. But as we find simply. the phonctic complement -se or -s in the nom. pl. - - $Y$ $\langle\ll-s$ (xxx. 34, etc.), the $a$ of aste may be the beginning of the word. Elsewhere ase signifies 'houses' or 'tcuples' only, c.g. in li. 5, or x. $2,4,5,6$, where, unfortunately, the lines are broken, but
where it once follows - - YY-se 'of cities' (xxiv. 6, and mure especially vi. $1 B$. =YYYY ase).

Since $=Y Y-$ is 'wood,' or rather 'pieces of wood,' aldinie, with which it is coupled by the conjunction hui, would naturally mean 'stones.' The word is acc. pl., and is formed from aldis, which I have not met with elsewhere, by means of ${ }^{\circ}$ the adjectival suffix -ni. Hence supposing aldis is 'stone,' uldinie would be literally 'the things belonging to stone,' i.e. 'stone-work.'

Salduli may also be read rakluti. The suffix shows that it is in the perfective case. It introduces a group of three sentences, each of which is the same, except for a word ending with the suffix $-l i$ with which it concludes. Each sentence sums up, as it were, the contents of the preceding inscription ; Khaldis and the other gods named in it are to have sacrifices performed to them after particular events or occasions. The event or occasion can only be one of the seasons of the year, of which the Proto-Armenians, like their neighbours the Assyrians and most other ancient nations, reckoned but three. Salduli would therefore seem to mean 'after the beginning of the year' (or possibly 'during the year'). Though the Armenian year began with September, it is more probable that the Vannic year commenced with March. In this case, the three terms which conclude and distinguish the three sentences will be respectively umnuli 'after the spring,' mesuli 'after the summer,' and dusisiuli-ni 'after the winter.' If, on the contrary, the year commenced with the autumn, we should have to render 'winter,' 'spring,' and 'summer.' Mesuli and umouli occur arain in vii. 4, 6 , where the last follows the word siduli. It is possible that this is the correct reading of the salduli of our present text, where Sir A. H. Layard gives $\hat{5}$, which may easily be a mistake for si, and Schulz has 5. However this may be, it is curious to find that the names of the seasons all belong to the u-declension, like atsus 'a month.'
30. Uldi is genitive. 'Houses' for ase would not make sense here.
31. The final suffix of dusisiuli-ni is to be explained by its closing the whole series of sentences which stand in the relation of plural datives after teruni. So Khaldi-ni 'to the Khaldi's.' It is interesting to find this suffix thus attached to unite clauses which are otherwise disconnected, and is another example of the replacement of the copulative conjunction in Vannic by adjectival suffixes. Comp. tisuldulini in line 26. In dusisiu- we have the adjectival $-u$ as in eba-u-sé (xi. 5) and arni-u-si-ni-da.

Meiesi is clearly the genitive or dative of an adjective in -si from mes 'he,' mei ' of him.' For the proof of the signitication assigned to the latter words see $\mathbf{x x}$.

I can make nothing of the following words or word, the reading of which is not absolutely certain. -anuni must be the 3 rd pers. pl. of a verb, but I know of no root with which it can be connected.

There is no need of pointing out the importance of the foregoing inscription for what may be called the theology of the early inhabitants of Armenia. The deities mentioned in the inscription have been already enumerated in an alphabetical list: all that is now necessary is to group them according to the value of the sacrifices to be offered to each. In this way we shall be enabled to have an idea of their relative importance and position in the Vannic Pantheon.
The Trinity of Khaldis, Teisbas (the Airgod) and the Sun-god

6 lambs
Khaldis ...... .................................... 17 oxen 34 sheep
Teisbas ...................... ........... ........ 6 oxen 24 sheep
The Sun-god ... ........ ........................ 4 oxen 8 sheel
Khudhuinis, Huas, Nalainis, Sebitus, Arśi-
melas, The horsemen belonging to Khaldis, The horsemen of the Air-god, Ardhuharairus, The gods of Atkanas.

2 oxen 4 sheep
Dhuranis (following Khudhuinis), Hanapsas, Deduainis, the Moon-god (Selardis), the dead (?) belonging to Khaldis, Atbinis, Kueras, Elipris, Khalrainis, Adarutas, Immusinis, Alus-Hurulihue-

> Sihuali, Aldutusinis, Erinas, Siniris, Huninas, Airainis, The god of the city Zumar, Kharas, Arazas, Zinḳunis, Huras, Artsibaddinis, Arnis, The 4 Khaldi's of the honse, The multitudinous Khaldi's, The Khaldi's of . . ., The god of the city Ardinis, The god of the city Kumenns, The god of the city Dhuspas, 'The children of Khaldis of the city, The gods of the city Artsuinis, The gods of the place of Khaldis, Subas, The gate of Khaldis, The gate of the city of Eridias of 'Teisbas, The gate of the Sun-god in the city of Huisis, Elialias, The Khaldi's of the Citadel, The gracious Khaldi's, The children of the Khaldi's of the wall, Talapuras, Kilibanis, The god of the country, The god of the land of Alganis, The god of the city Tsuinis, The Khaldi's of the dead

> 1 ox 2 sheep
> The god of . . . diras ........................... 2 oxen 14 sheep
> The gods of the Nations ...................... 4 oxen 18 sheep

The gate of the city Nisiadurus (?) of the god Huais, Tsinuyardis, Ardis

2 sheep
The god of the land of Babas.................. 10 sheep
Harubainis, Babas, Dhuspuas ...... ....... 1 wild ox 1 sheep
Auis (the water-god), Ayas (the earth-god), Sardis (the year-cod?)

1 wild ox
Ipkharis, Bartsias, Śilias, Arhas, Adias, Huias

1 sheep
The god of Aais ............................... 4 sheep
The god of Inuas
17 sheep ${ }^{1}$

[^166]
## VI.

The following fragmentary inscription from a squeeze taken by Mr. Hormuzd Rassam may also belong to Ispuinis. It is engraved on a broken stone in a wall in the village of Zustan, from which No. IV. came. Its mutilated condition makes any attempt of translation out of the question.
A.

1. $(\sim-Y)$ Khal-di-ni-ni al-śu-(i-si-ni) . . . To the Khaldis-children the multitudinous
2. $Y<Y\left(?\right.$ da) -e mu-hu ${ }^{1} \ldots$
3. (? us)-gi-ni te-(?ru-bi) . . .
the favourable (?) I have set up (?) . . .
4. ( $-\boldsymbol{y}$ ) ku-e-ra ....
the grod Kueras . . . .
B.
5. . . $=Y Y Y Y$ a-se ...
the houses
6. ( an engraved stone I inscribed . . .
C.
7. (? Y Is-pu-i-)ni-ka-i . . .
? to the family of Ispuinis . . .
8. . . . na a $=-Y Y Y(?)$ ra...
. . . a tablet (?) . . . .
9. . . . ni-khu (?)-bi (?) . . .
D.
10. . . $\rangle(?$ da)-e la . . .
11. ... 気〈 (? da)-e...
12. . . . a-nu-ni

For the proof of the translations given in B. 2. and C. 1. see xxvi. 4 and xxxvii. 18.

[^167]
## Inscriptions of Menuas.

Menuas, to judge from his inscriptions, was preeminently a builder. His name has the form of a perfect pass. participle, but I do not know the meaning of the stem menu. A district of Armenia, north of Lake Van, is still called Manavaz; possibly it derived its name from the old Vannic king. At all events, it has nothing to do with the Mannai of the Assyrian inscriptions, the Mana of the Vannic texts, and the Mimi of the Old Testament, called Minyans by Nikolaos of Damascus, who lay between the kingdom of Van and Lake Urumiyeh (see pp. 389, 400).

## VII.

This inscription is published for the first time from $a^{6}$ squeeze taken by Mr. II. Rassam. It is found on a stone built into a wall below the monastery of Kaminwan Magramana, about five miles to the east of Van. Though unfortunately a mere fragment, it will be seen to belong to the same class of texts as the inscription of Meher-Kapussi.

1. ... (-y Khal-)di-e ur-pu-a-tsi za-du-ni
... of Khaldis the chief ministers he has made (built)
2. . . . e as-kha-as-tu-li kha-lu-li
. . . after the bringing of the food, after the . . .
3. ... gu-di $-\ll\rangle<Y-d i-a-t u-l i-i-e$
. . . of the . . . after the bringing of the men of the . . .
4. . . . śa-li me-su-li ka-am-ni-ni
. . . after the . . . after the summer, for the possessions
5. . . . si-i-du-li a-i-ni
... after the beginning of the year (?) of the dust (earth)
6. . . . si-i-du-li um-nu-li
after the beginning of the year (?) after the spring
T. ... (Y Me-nu-a-s Y) Is-pu-hu-i-ni-khi-ni-s

Menuas son of Ispuinis.
rol. xiv.-[new series.]

1. We find urpu-a-tsi again in xvi. 5 associated with 'the gate of the land of Khaldis.' Urpuli occurs in xi. 3, and urpu-li-ni in x .6 and xvi. 3 , in connexion with ase 'temples' and 'the gate of the land of Khaldis,' while urpu-dai-ni is met with in xlviii. 12 , where it can hardly mean anything else than 'shrine.' The suffix -tsi has been discussed in the section on Grammar (p. 436), and $-a$ is shown by such passages as xxxii. 3 to denote 'man' or 'men of.' Consequently urpu-a-tsi would mean 'the chief men of the shrine,' i.e. the chief ministers or priests.
2. Askhas-tuli must be a compound like amas-tubi. Tuli, however, cannot be the perfective of the participle, as that would be tuali, and the spelling tuli-i-e in the next line shows that we have to deal with a substantive formed from the stem $t u$ by the suffix $l$. As we shall see later on, $t u$ enters into composition with many words, e.g. ip-tu' to bring an inundation,' sidis-tu 'to bring back,' amas-tu 'to bring destruction.' Aslihas-tu is formed like sidis-tu and amas-tu, and, as sidisi-tu shows, stands for an earlier askha-si, an adjectival formation in -si from askha (see p. 437). If askha- signifies 'food,' askhas-tu will be 'to bring food,' i.e. 'to feed.' Cf. askhas-tese and askhas-ti (x. 2, 5).

I cannot guess the meaning of khaluli (comp. x. 3). The stem khal is that which we have in Khaldis.
3. . . gu-di may be the latter part of ulgu-di, formed like Khal-di-s and meaning the 'shieldsman' (see v. 24).

I do not know what Assyrian character the ideograph $\sim \lll<Y$ is intended to represent. As we shall see hereafter, -di-a means 'people of.' The word is compounded with tu, and the way in which the suffix is written shows that it lad the long sound of -lê.
4. With . . . śa-li comp. x. 5, xii. 2.

Kamni-ni will be the dative pl. of kamnis, an adjcetive in -nis from the root kam. In xxx. 19 we have kamnâ $Y$ Di-a$h u-e-$ khi-ni-i, where the context shows that we must translate 'the (landed) possessions of the soll of Diaves.' No better proof can be given of the difference between the two suffixes
-ni and -na than the use of kam-nis and kam-nas, the latter in reference to territorial possessions, the former to possessions generally.
5. For siduli see p. 493. We must compare si-li (v. 26) and sidubi (xl. 72), which seems to mean 'I established' or 'inaugurated.' The word may mean literally 'dawn-bringing.' For aini see note oll v. 21.

## VIII.

The following fragmentary inseription comes from the same monastery and is published from a squeeze taken by Mr. Rassam. It is No. xxiv. of Sehulz, who saw it in the court of the ehnreh of Shushanz, $4 \frac{1}{9}$ miles from Van.
1.
2. . . - K Khal-di-ni-ni . . .
. . . to the children of Khaldis . . .
3. ...YMe-i-nu-(a-s) ...

Menuas . . . . . .
4. ... - Khal-di-i-ni . . .
. . to the Khaldi's
5. . . . si-i-di-i(si-tu-ni)
. . . he lias restored.

## IX.

This is another mutilated inseription, published from a squeeze for the first time, which runs round the fragment of a column in the same monastery.

1. . . . . ( (Y Me-nu-a-s Y Is-pu-hu)-i-ni-khi-ni-(s) . . . . Menuas son of Ispuinis . . . .
2. ( $=Y Y Y Y \sum Y$ ) ba-du-sii-(e) si-di-si-tu-ni $-=Y Y$ si-di-si-tu-ni the old palace has restored, the city has restured hu-i
and
3. ( $\boldsymbol{M}$ Me-nu-as $\rceil$ Is-pu-hu)-i-ni-khi-ni-s si-di-si-tu-ni

Menuas the son of Ispuinis has restored.

I have been able to restore this inscription partially by the help of No. xiii.
2. Baduśe is an adj. in ś from a stem badu. The context in which it occurs not unfrequently (e.g. xiii. 2, xvii. 5 , xxxv. 4) shows that it must mean 'old' or 'decayed.' We find a similar phrase in the Assyrian inscriptions.

$$
X .
$$

This inscription, which contains an account of the meatofferings to be made to Khaldis, exists in the Church of Sirka, about three miles east of Van. It is here published for the first time from a squeeze taken by Mr. Rassam. The small fragment No. xxvi. of Schulz from the Church of Shushanz belonged to a duplicate of it. See No. xii.

1. . . . . ( - YKhal-)di - -ni pa-ri $\leadsto Y$ Khal-(di-e) ... ..... of Khaldis the food; from Khaldis
2. . . . . (as-)kha-as-te-e-se a-se - Y Khal-di-i
. . . . . . the food-removers the houses of Khaldis
3. . . . . . . ni a-lu-s kha-lu-li-e .
. . . . . . whosoever after the
4. ..... (-y Khal-di-)na

......for the gate of the land of Khaldis, the food; - $-y Y$-se a-se... belonging to the cities the houses . . .
5. 

. . . . . (śa-) li as-kha-as-ti - -ni a-se $=Y\langle\ldots$ after the . . . . of the food-remover a living-creature, the houses an ox...
6. . . . . . (ur-)pu-li-ni a-se ni-ka-li . . . .
...... . after the shrine ; the houses after
7. . . . . . (e-)hu-ri-i-e Y Me-nu-a-s Y (Is-pu-hu-i-ni-khi-
. . . . . to the lords (the Khaldises) Menuas son of Ispui-ni-s) . . .
nis
8. . . . . . (i-ni-)li =
. . . . . after this old gate (had been restored).

1. Pari, also written parie, is shown by the position it frequently occupies to be a preposition. It occurs most often after kudhadi ' on departing,' and before the name of a country or city, as in xl. 57 cudhadi parie \& Aladlaie, where the meaning can only be 'from' or 'out of.' It always takes the genitive-dative after it. The root is par, which we find in the verb parubi 'I took away,' a synonyme of tubi; e.g. xxxvii. 15 ' 1114 horses I carried away.' It is curious that in Georgian par is 'to steal.'
2. With askhas-tese comp. askhasti in lino 5 . Since $d$ becomes $t$ after $s$, askhastese might stand for askhas-llese and askhasti for askhas-di, the latter being the locative singular, and the former an adjectivo in -si, formed from the locative. But as we have found askiha used as an adverb in composition with $t u$, it is better to regard both words as compounded with the root tiu 'to undo' or 'remove.' Just as the present participle of $s i-u-b i$ is sies, so tho present part. of tiuclae would be ties or tés. From this we should get the adjectival tesis. The use of pari indicates that this explanation must be the right one. Askihasti will be the genitive-dative singular.
3. The phrase - Khaldina $-Y$ occurs again, xvi. 2, 5, 6. Khaldina is the genitive or dative sing. of an adj. Khaldinas, on which see p. 434.
4. We learn from the variants $Y \lll<$ 'alive' and sekheri (xxxii. 9 and xxxvii. 14) that the pronunciation of - $-n i$ was sekherini. The beginning of the line is completed from No. xii. 2.
5. Nikali is a word I cannot explain.
6. For the common epithet ehurie or eurie see note on v. 1. It is completed at the beginning from No. xii. 4.
7. Inili is restored from a comparison with xvii. 4 (9) $\Rightarrow$ Khal-di ini-li $=$-li sidistua-li, 'after this gate had been restored for Khaldis.' We should have expected but the immediate attachment of the adjective badusie seems to have occasioned the loss of the suffix. We must notice that in sentences of this sort the word which comes at the end, and
as it were incapsulates them, may alone take the suffix of the first word in the clause, the intervening words being regarded as parts of a compound. Comp. note on v. 31.

## XI.

This inscription is published for the first time from a squeeze taken by Mr. Rassam. The original is found in the same church as the preceding inscription. It is very possible that the two inscriptions belong to the same monument, and that the one which follows is an earlier portion of No. x. It is interesting as showing that the name of the town on the site of which Sirka now stands was Artsuniuis in Vannic times. The gods of Artsuinis or Artsunis are mentioned in v. 15.

1. . . . $-=$ - $Y$ Ar-tsu-ni-hu-i-ni-e . . .
. . . . belonging to the town of Artsuniuis . .
2. ... (一y) Khal-di-na-ni
... for all the gates belonging to the land of Khaldis shields . . .
3. . . . 2i-ni-e-i ur-pu-li - - Khal-di-na (? =-
. . . . after the shrine of (? the god of the town . . . zis) the gate (?) of the land of Khaldis . . .
4. . . . (Y Me-)nu-a-i ga-la-zi su-i-ni-ni khu-su nuu . . .
. . . . . of Menuas the altars (?), of lambs (?) the flesh of them. . .
5. . . . ( $(-Y)$ Khal-di-ni c-ba-hu-si-i-e $\rightarrow Y$ Khal-di-ni
. . . . for the Khaldises of the country, for the Khaldiscs . . . .
6. The variant spelling of this name is instructive: $\left\{\begin{array}{l}\text { Artsu-yu-n-is } \\ \text { Artsu-n-yu-is } \\ \text { Artsu-n-is }\end{array}\right\} . \begin{aligned} & \text { Compare the name of the city Alniumu } \\ & \text { in i. } 6 .\end{aligned}$
7. The omission of the plural sign after by its omission after the ideographs 'ox' or 'sheep' when preceded by a plural numeral in the Meher-Kapussi text. 'Gate' is attached to baddini as though it were the first part of a compound word.
8. The broken word . . . sinie must be the gen.-dat. sing. of an adj. in -ni.
9. With gala-zi compare bur-gala-dla xxxi. 3, and the note thereon. Sui-ni-ni ought to be the dat. pl. of an adj. in -nis, from sus or suis, perhaps connected with susis 'a sheep.' The word is found in other sacrificial inscriptions (xix. 8 and xxixb. 8). The meaning of khusu is given by liv. 4 , where it explains the ideograph 'fleslı.' The word is in the acc. pl., the sing. nom. being khusus. If mu is not the first syllable of a word, it will be the suffixed possessive pronom of the 3rd person, for which see xxxvii. 5.
10. Ebalusie will be the adj. of the stem which gives us ebanis ' country,' formed like dirusie, v. 31.

## NIa.

The following fragment exists in the same church as the two preceding inscriptions, and is copied from a squeeze taken by Mr. Rassam. Strangely enough, a duplicate fragment of marble, now in the possession of the Russian Consul at Van, was found in a cave near Van, along with other pieces of marble and some copper weapons and tools, and must have furmed part of a slab which lined the wall of a palace.

the .... , the man of the palace, the slave
2. ...ni-i $=Y Y Y Y Y Y Q Y Y Y-Y Y Y Y-\langle<Y=Y Y Y Y \ldots$
. . . . . the firmly-fixed house, 3501 houses .
3.
. . . . Y- ri-bi-i
sa-na
ap-ti-i-ni . . . .
. . . . the dead (?) of that country (?) which were called . . .

1. In one copy the first character is $n a$, perhaps for inani ' city.'
2. The ideograph Yy is the Assyrian cânu 'to establish,'
but I have never found the compound $=Y Y Y Y$ IY $\&$ in the Assyrian texts.
3. Instead of the first word the duplicate text has a-si-bi-i. A-zi-i-bi-e is found in a mutilated passage (xxxvii. 1), where the final $e$ shows that $i$ in our present inscription belongs to azilit, and that the latter is accordingly not the 1st person of a verb. For the termination we must compare atibi 'thousand.' A similar passage probably occurs in Iv. 12, where, after a list of countries in the accusative, we seem to read $\left\{\begin{array}{c}s i-r i \\ a r\end{array}\right\}-i$ sa-ni ap-ti-ni. The last word is found in a passage, again unfortunately mutilated (xxxii. 6, 7), which runs Sa-da-ha-da-e-khi-ni-da-a-ni ap-ti-i-ni .... Ay kab-bi-e \& Kha-ti-na-as-ta-a-ni ap-ti-ni . . . 'the place of the son of Sadahadas which was called. . . . . the place of the Hittites which was called.' I think we must read ni-ri-bi-i in our present text, and translate 'the dead.' In this case azibie will have the same meaning. But we may also read (ka-)ar$b i-i$, and perhaps render the word 'statues.' ${ }^{l} S a-n a$ must contain the pronoun which we have in sa-dae (xxxix. 14), sa-a-da (xl. 13) 'there,' sa-tuada and sa-tubi (1.24, 1. 17), as well as in sa-ve (li. 5). Sa-na will be 'belonging to that country,' an acc. pl., while sa-ni in lv. 12 would represent the acc. pl. of an adjective in -nis.

I have assumed that aptini should be decomposed into ap and timi, the latter of which signifies 'he has called' or ' named,' in which case (ip must be a sort of relative prefix. Abi-dadubi, however, means 'I burnt,' and it is quite possible, thercfore, that aptini may be a compound of abi 'fire,' or a full word of unknown signification from the stem apti. The broken condition of the passages in which it is found does not allow us to decide the question. If $a p$ is a relative prefix, we may compare the latter part of the word adai-aba-di. For tini sce xxii. 3.

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## XII.

Schulz came across the following fragment, along with the two others already mentioned (pp. 499,500 ), in the court of the church of Shushanz. It is his No. xxv., his No. xxvi. forming the contimation of $i t$.

$$
\begin{aligned}
& \text { xxvi. } \\
& \text { a-se . . . }
\end{aligned}
$$


. . . . the food, belonging to the cities the houses . . .
2. . . . . śa-li as-khaa-

$$
\text { as-ti } \sim \mid<(-11 i) \ldots
$$

. . . . after . . . of the food-rcmover, a living creature . . .
3. . . . . (um-)nu-li-ni
. . . after the spring,
4. . . . ( - - 1 ) Khal-di-i-e eto Khaldis the
a-se ni-(ka-li) . . . the houses after . . . . u-ri-i-e . . . lord . . . . . .

1. This is completed at the begimning from No x. 4. We must read inami-se.
2. No. x. 6 has (ur)-pulini instead of (um-)mulini, but Schulz's copy may be wrong.

## XIII.

This is No. xxiii. of Schulz, and comes from a round stone in the court of the church of Shushanz. It is identical with No. ix., but the text is in a more perfect state.

1. (-y Khal-di-ni-ni) us-ma-a-1 (si-ni $Y$ Me-nu-a-s $Y$ Is-)

To the children of Khaldis the gracious, Menuas son of pu-hu-i-ni-khi-ni-s =yYYY dhu-lu-(hu-)ri(-ni) Ispuinis the palace
2. ZYYY Eyr ba-du-śi-e si-di-si-tu-ni $\quad=$ YY si-dithe palace which had decayed has restored; the city has si-tu-ni hu-i gi-e-i is-ti-ni si-da-hu $-\frac{y_{-}^{\prime}}{2}$ restored; and images these (has established?)

[^169]3. ${ }^{\boldsymbol{T}}$ Me-nu-a-s $\boldsymbol{Y}$ Is-pu-hu-i-ni-khi-ni-s si-di-si-tu-ni e-ha Menuas son of Ispuinis has restored this EyYYY Ey- e-ha - =YY
palace, this city.

1. The suffix -ni is probably to be supplied. Line 3 shows that dhuluri(s) is the equivalent of the ideographs of 'palace' in the second line. The termination is rendered certain by xliii. 75 , where we have the plural EYYYY Ey- -ri-a, to bc read dhuhuria.
2. The latter part of this line has been restored with the help of Layard's copy. For giei see p. 460. The meaning of istini is settled by the numerous passages in which the word occurs (e.g. xxxvii. 16, xxxviii. 3, etc.). We should probably read sida'u-mi connected with sidubi, xl. 72. See vii. 5. Possibly the characters $d a$ and $h u$ have been transposed by crror, the word being si-hu-da-da, as in xxi. 7, where in that case we should read si-hu-da-a-da.

## XIV.

This inscription is on the fragment of a column in the monastery of Yadi Kilissa, about six miles east of Van, and is given here from a squeeze. It was first published by Dr. Mordtmann in the Z.D.M.G. xxxi. (1877), who has, however, omitted the characters in the middle. The same text is thrice repeated in three successive lines.
Y Me-uu-a-s $\dagger$ Is-pu-hu-i-ni-khi-ni-s i-ni $E Y Y Y Y$ a-si khu-hu-sí-e Mcnuas son of Ispuinis this house holy

## za-a-du-hu-ni

has built.
The meaning I have given to the adjective khusie is of course conjectural; but I can think of no other that would well suit the passage. Khu-bi in xxxviii. 13 and $x 1.54$ secms merely a contraction of kheubi ' I eaptured.' 'Prisou-honse' is not likely.
xV.

The following also runs round a column now in the pos-
session of $\Lambda$ ttam $\Lambda_{\text {ga }}$ of Van, and is copied from a squeeze of Mr. Rassan. The inscription is thrice repeated.
Y Me-nu-a-s $Y$ Is-pu-hu-i-ni-khi-ni-s i-ni $=$ YYYY a-si khu-hu-
Menuas son of Ispuinis this houso holy
ssi-e za-dn-hu-ni
has built.

## XVI.

The following fragmentary inscription is copied from a squeeze taken by Mr. Rassam.
1.

tablet
2. - Y Khal-di-na =-
of the gate of the land of Khaldis the inhabitants . . .
3. di-du-li-ni ur-pu-li-ni $\leadsto Y$ Khal- (di)
after the after the shrine Klaaldis . . .
4. za-na-ni-ni kha-i-ti-ni $\rightarrow Y$ Khal-di-na for those that belong to . . . a monument belonging to the my -na...
land of the gate of the land of Khaldis . . .
5. ur-pu-a-tsi

-     * Khal-di-ma the chief ministers of the gate of the laud of Khaldis

6. Kha (?)-a-i-ti (?) $\rightarrow-Y$ Khal-di-na
of the monument (?) of the gate of the land of Khaldis
$\Rightarrow$ Khal-di-i-e to Khaldis.
7. The meaning of dhari-khi-ni, formed by the suffix khi, which denotes descent, is determined by xxxvii. 12 , where we have khaubi $-=Y Y$ Hurieyu-ni $-=Y Y\langle\langle$ nu-śi-e hu-i clha-ru-khi-ni-i, 'I captured the city of Hurieyus, the royal city, and the inhabitants.' So, too, xlv. 37, hui dha-e-ru-khi-i-ni-e-i te-ba-(ni) 'and the inhabitants of the country.' We must
notice the variation of vowel in the second syllable, implying that $u$ was pronounced $\ddot{u}$.

3, 4. Didu-li-ni and zana-ni-ni are not found elsewhere, and I have no clue to their signification.
khaiti-ni may possibly be connected with khaidi-a-ni li. 6, which the context shows must mean 'workmen' or something similar. It is, at all events, akin to khaitu in xxxii. 4.

## XVII.

This inscription, No. xxx. of Schulz, is found in the church of Koshbanz, about twelve miles east of Van. Each line is repeated twice.

1.     - Khal-di-i-ni-ni us-ma-a-si-i-ni

To the children of Khaldis the gracious,
2. - $\boldsymbol{Y}$ Khal-di-i-e e-hu-ri-i-e $Y$ Me-nu-a-(s)
to Khaldis the lord Menuas
3. Y Is-pu-hu-i-ni-khi-ni-s i-ni śu-śi si-di-is-tu-(ni) son of Ispuinis this wall has restored:
4. Khal-di i-ni-li Yy - li si-di-is-tu-a-li of Khaldis after this gate had been restored
 this palace he has restored which had decayed.
We must notice here the different terminations of the genitive Khaldi and the dative Thaldie. For line 4 see note on x. 8.

## XVIII.

This inscription comes from the same church, which is dedicated to St. George. It stands on the right of the entrance. Schulz numbers it xxxi.

1. (一*) Khal-di-ni-ni ns-ma-a-si-(ni)

To the children of Khaldis the gracions
2. (Y Me-)nu-a-s Y Is-pu-hu-i-ni-khi-(ni-s)

Mcnuas son of Ispuinis
3. $(\sim-Y)$ Khal-di(i)-nii-li $=Y_{Y}$-(li)
of Khaldis after this gate
4. (si-)di-is-tu-a-(li) had been restored
5. (ba-)du-śi-i . . . . . . .
which was decayed

## XIX.

The following inscription (Sclulz xxxiii., xxxiv., xxxv. and xxxii.) is engraved on four of the sides of a stone, which now forms the altar of the same church. Dr. Mordtmann first arranged the several parts of the inscription in their right order. Mr. Rassam has lately obtained squeezes of the whole inscription. The upright lines mark the edges of the stone.

1.     - F Khal-di- | ni-ni us-ma-si-ni † | Me-nu-a-s

To the children of Khaldis the gracious Menuas
2. $\boldsymbol{Y}$ Is-pu-| hu-i-ni-e-khi-ni-e |-s i-ni son of Ispuinis this
3. $=$ YYYY bar-śu- | di-bi-du-ni za-du-ni $Y$ Me-nu-a-i (house) a chapel has built. Of Menuas
4. =yYYY bar-śu-| di-i-(bi-du)-hu-ni| ti-i-ni (the house) the clapel he has called (it);
 of Khaldis all-belonging-to-the-land of the victins ku-ru-ni (and) the gifts
6. ma-ni-ni is-|ti-(ni-ni Me-) nu-hu-a | belonging to each (even) to these (gods), of Menuas ar-di-se
$\left\{\begin{array}{l}\text { the regulations of sacrifice } \\ \text { the offerings }\end{array}\right.$

[^170]
hali

$\left\{\begin{array}{l}\text { in part to Khaldis . . . . . . . . . . . to be sacrificed, } \\ \text { some }\end{array}\right.$
 $\left\{\begin{array}{l}\text { in part the place of sacrifice (?) belonging to . . . of lambs. } \\ \text { some }\end{array}\right.$
9. bar-za-ni | zi-el-(di $Y$ Me-) nu-a | - Y Khal-di-s The . . . . . . . . . . . of Menuas Khaldis
10. hu-tsu-ni $\mid>Y \lll$ (a-se-)di is-| ti-ni-ni has destined (?) among the gods belonging to these (things)
11. $\langle<\ \lll<\quad$ hu- | tsi-di (? a-da-) i-si $\quad$ i- | bi-ra-ni (and) among kings future assembling (?) the men
12. YMe-nu-a- | i-ni bar-(śu-di-)bi ${ }^{1}-d u$ as | -khu-da-ni belonging to Menuas of the chapel (as) a place of eating. 13. a-lu-s tu-hu-da-i-e

Whoever shall carry away,
14. a-lu-s Ey ru-ku du-da-(i-e)
whoever the victims shall withhold,
15. a-lu-s e-śi-i-ni-e
whoever the ordinances
16. su-hu-i du-da-i-e
all (?) shall destroy,
17. a-lu-s se-ri du-da-e
whoever the characters shall destroy,
18. tu-ri-ni-ni


Khal-di-s
for what belongs to the stone (?) may Khaldis
19. ma-a-ni $\rightarrow y$ ay pi-e-i-ni him during the day, the name
3. Barśu-di-bidu-ui, in the acc., is cvidently a compound of barsilu-di, formed by the individualizing or locative suffix -di, and bidu(s), which we may perhaps also get in add-badi, written add-bidi liv. 6, 10, 11. Bidu-ni appears alone in xxx. 17, xliii. 60. Comp. bidi-a-dibad 1. 18. 'The whole compound word is found in xxv. 3, 5 , where it seems to mean 'a chapel.' It cannot be 'temple' here, as the barśudibidus is called after the name of the king. The ideograph of 'house' which precedes the word fixes its signification within narrow limits, while the mention of sacrifices made to Khaldis in connexion with it shows that it could not have denoted a merely secular building. I concludc, therefore, that it meant the private chapel of the king. The simple bidus seems to have meant ' priest.'
4. For $t \hat{i}$-ni see xxii. 3.
5. The determinative Ey indicates the meaning of the word which follows. From line 14 it would appear to bo ruku, which is plural like lutu 'women.' The territorial suffix -ua I do not understand, unless it refers to temple-lands on which the victims were fed. For the proof of the signification of kuruni see $\operatorname{xxx} .3$.
6. For manini see v. 24. The word here, however, may be a derivative from mani 'him,' and so mean 'belonging to him.' Ardise here will be rather 'offerings,' from $a r$ 'to bring,' than 'sacrificial requlations.' Comp. xlviii. 10.
7. Adakid or adaki, as we shall see, is an adverb meaning 'partly,' so that ada must siguify 'part,' 'some.' We have already met with ada in the sense of 'and.' Here it may be translated 'both-and,' as well as 'some-some.' The restoration Khaldi-(e ni-ip-)śidie seems pretty certain when we compare v. 3. The acc. buru-da-ni may be compared, as to form, with uruda-s 'a family,' da being the localizing affix. It may possibly be connected with lurganas ' an altar'; if so, it would signify 'a place of offering' or 'sacrifice.' Cf. also buras 'court.' The termination -lue belongs to puruda...., and perhaps we ought to read puru-da-ni-na-ve. The word is a dative plural corresponding with Khaldie nipśidie in the cor-
relative clause, and agreeing with 'the divine children of Khaldis ' understood. ${ }^{1}$
9. Barza-ni may be compared with the name of the town Barza-nistun, near Amid (Diarbekr), captured by Assur-natsir-pal. I have, however, no clue to its meaning. The phrase barza-ni zil-di occurs again in liv. 3.
10. Utsu-ni seems to be connected with utsi-di in line 11, where the analogy of the Assyrian inscriptions would lead us to translate 'future.' In this case it would signify 'has destined,' 'has marked out for the future,' literally 'has futured.' Hu-tsi-di, however, may be the phonetic complement of $\langle\langle Y \lll$, and we ought possibly to read nu-tsi-di 'among the chief kings.' For my reasons for reading ( $a-s e-$ ) di see note on v . 29.

Isti-ni-ni is used like turi-ni-ni in line 18. I do not see how it can agree with the locative which precedes it, and it must therefore stand alone-' for what belongs to these things' -or refer back to barzani.
11. That we should supply (ada-)isi here is made probable by li. 4 , upon which see note. I do not know why the locative suffix is not attached to the word. But as we find adaisi construed with a singular accusative in li. 4 , the form seens to be indeclinable.

We find ibira-ni in xxx .18 , where it comes after bidu-ni, and appears at the end of a list of tribute. If bidu-ni meant 'priest' (see note on the passage), ibirani might be 'princes.' But it is possible that it is the phonetic reading of $E Y Y Y Y \lll<$ -ra-ni 'men' (xxxix. 35, liii. 6).
12. Schulz gives $\rangle-$ si ; but we must clearly read $-Y$ bar. The squeeze unfortunately lias nothing here. The word is in the gen-dat. sing.

Askhu-da-ni is the accusative of a noun formed by the

[^171]localizing suffix da from the stem askiku, which we have already had in astik-asti, etc. Comp. astihu-me xxis. 6. Since $u$ usually marks the verbal stem as opposed to the nominal one (as in cudha-di by the side of cudhubi), askhu-du must be regarded as formed from the verb.'
13. For the proof of the meaning of alus and the form in daie or dae see xx. The root $t \prime$ is shown by numerous passages to signify ' to take away.' Since paru seems to have had the same meaning, Mordtmam read Ay as par. This, however, is proved to be incorrect by the fact that AY ? stands by the side of AY =YYY= (xxxii. 3, xxxix. 39). Here the vowel as usual indicates the sound to be ascribed to the preceding character, while par-bi would be an anomalous form, all other rerbal forms in -bi being preceded by a stemrowel, which is preferably $u$. See p. 424 .

FI] camnot here be the determinative of 'sheep,' which is susis; it must therefore have its other determinative value of 'sacrifice' (as in the Assyrian imprecatory formula W.A.I. i. xvi. col. 8, 5S). $U$ in ruzu is the termination of the accusatire plural, as in lutu' women.'

For the meaning of cludaie see $\mathbf{x x}$. The literal signification is 'destroy.'
15. Esi-nie is of frequent occurrence, especially in the imprecatory formula. In xxi. '2, Menuas states in an inscription cut by the side of a rock-tomb that he had 'made this e-sí,' and in xliv. 12 , a text contained in a tablet cut upon the rock on the right of the rock-hewn sepulchres of Van, he denounces curses on 'whoever shall remove the images and the chambers os $i-n$ '-ni.' Here the 'chambers' belong to the eśini. Elsewhere the word appears on detached stones (e.g. xxixb.6), so that it cannot signify a 'rock-tomb.' We bare, therefore, only two significations to choose from, 'a tomb' in general or 'an inscription.' But the signification of 'tomb' would not suit the present inscription any more than xxviii. 4, where we

[^172]have $e$-śi-i-ni, or liv. 4, where we find $e$-śi-ni. Now eśmis is a derivative in -ni from eśi-s, and the simple eśis is found, besides xxi. 2 , in xlv. 22,40 , where we are told that 'he (i.e. the king of Lusas) brought to Argistis the essi,' and 'he the eśi took.' Here only one meaning is possible, that of 'laws' or 'commands.' This signification is confirmed by the derivative eśi-a in xlv. 17, where we read 'governors and es'i-a (i.e. lawgivers) I appointed.' Hence eśis will be 'a law,' 'injunction,' 'statute,' while the derived eśinis will be 'that which belongs to a law,' the 'text' or 'inscription,' namely, which contains it.
16. Sui is an adjective agreeing with esine. We find the word similarly coupled with eśini in xxviii. 5 and xlviii. 15 ; also perhaps in a mutilated phrase xxxix. 31, and certainly in xliii. 2 (where it follows badi-nini 'old'). We see from xxxi. 10 that it cannot signify 'inscribed ;' possibly it is 'all.'
17. Seri is from seris, and occurs again in 1.36 , where it can hardly mean anything else than 'characters.'

18, 19. For turi-nini, mani and pieni, sce xx.

## XX.

The three inscriptions which follow are repetitions of one and the same text engraved on a pyramidal fragment of rock, about fifty feet high, a few steps to the right of the KhazanéKapussi or 'Gate of Treasure,' one of two artificial caves, with vaulted roofs, cut for sepulchral purposes in the east face of the rock of Van. The old tomb las become a place of pilgrimage, and the natives believe that vast treasures of diamonds are hidden beneath it, guarded by two men with flaming swords. The inscriptions are numbered xiii. xiv. and $x v$. in Schulz.

1. $\rightarrow-Y$ Khal-di-ni-ni us-ma-si-ni $Y$ Me-nu-a-s
2. $\sim$ Y Khal-di-ni-ni us-ma-si-ni $\quad$ Y Me-nu-a-s
3. $\rightarrow Y$ Khal-di-ni-ni us-ma-si-ni (Ye-nu-a)-s

To the children of Khaldis, tho gracious, Menuas
2. Is-pu-u-ni-khi-ni-s i-ni-da
2. YIs-pu-hu-i-ni-e-khi-ni-e-s i-ni-(i)-da
2. Ys-pu-(u-ni-khi-ni-s i-ni-) da son of Ispuinis here
3. FYYY ar-ma-ni-da-ad khu-a-da
3. FYYY ar-ma-a-ni-e-da-ad khu-hu-a-da
3. YYY $^{3}$ (ar-ma-)a(-ni-da-ad khu-a-da) the tablets destroyed
4. si-di-is-tu-a-da $\rightarrow$ Khal-di-ni-ni
4. si-di-is-tu-a-da --Y Khal-di-ni-ni
4. si-di-is-(tu-a-da restores.
5. al-śu-si-ni
$Y$ Me-nu-a-ni
5. al-śu-hu-i-si-ni

Y Me-i-nu-a-ni
5. al-śu-hu-(i-si-ni

Y Me-nu-a-ni) the multitudinous belonging to Menuas
6. YIs-pu-u-ni-e-khi
6. YIs-pu-hu-i-ni-e-khi
6. Y Is-pu-hu-(ni-e-khi son of Ispuinis,

$$
\begin{aligned}
& \left\langle\left\langle\operatorname{tar}^{3}-a-\mathrm{i}-\mathrm{e}\right.\right. \\
& \left\langle\left\langle=Y Y_{Y}\right\rangle\right. \\
& \left\langle\left\langle\operatorname{tar}^{-a-i-e)}\right.\right. \\
& \text { the mighty king, }
\end{aligned}
$$

7. $\langle<$ al-śu-ni $\ll+$ Bi-a-i-na-e
8. $\langle<$ al-śu-(hu)-i-ni $\ll \geqq$ Bi-i-na-e
9. ( $\langle\langle$ ) al-(śu-i-ni $\langle\langle$ \& Bi-a-i-na-)e king of multitudes, king of the country of Van,
10. a-lu-si $\rightarrow=Y Y$ Dhu-us-pa-e $-=Y Y$
11. a-lu-si $-=Y Y$ Dhu-us-pa-a-e $\rightleftharpoons Y Y$
12. (a-)lu-(si $\sim=$-YY Dhu-us-pa-e $-=Y$ Y) inhabiting the city of Dhuspas.
${ }^{1}$ Layard (incorrectly) ra. ${ }^{2}$ Layard (incorrectly) ta. ${ }^{3}$ So Layard.
13. YMe-nu-a-s Y Is-pu-u-ni-khi-ni-s
14. YMe-nu-a-s Y Is-pu-hu-ni-khi-ni-s
15. ( $(\mathrm{Me}$-)nu-hu-(a-s $Y$ Is-pu-hu-ni-khi-ni-s)

Menuas
son of Ispuinis
10. a-da a-lu-s i-ni
10. a-da a-lu-s i-ni
10. a-da-e (a-lu-s i-ni says; whoever this

| 11. a-lu-s | pi-tu-da-e | a-lu-s |
| :--- | :--- | :--- |
| 11. a-lu-s | pi-tu-da-e | a-lu-s |

11. [omitted by Schulz]
whoever carries away the name, whoever

| 12. a-i-ni-e-i | i-ni-da | du-da-e |
| :--- | :--- | :--- |
| 12. a-i-ni-e-i | i-ni-da | du-da-i-e |
| 12. a-i-ni-(e-i | i-ni-da | du-da-e) |
| with the earth here | destroys, |  |


| 13. a-lu-s | hu-da-s(e) | ti-hu-da-e |
| :--- | :--- | :--- |
| 13. a-lu-s | hu-da-s(e) | ti-hu-da-i-e |
| 13. a-lu-s | (hu-da-s[e] | ti-hu-da-e) |
| whoever | that | undoes |

14. i-e-s(e) za-du-bi tu-ri-ni-ni
15. i-e-s(e) za-a-du-bi tu-ri-ni-ni
16. i-e-s(e) (za-du-bi tu-ri-ni-ni)
which I have done; for all that belongs to the rock (?)
17. $\rightarrow$ Khal-di-s $\rightarrow$ - 4 - $-\mathrm{a}-\mathrm{s}$
18. $\rightarrow$ K Khal-di-s $\rightarrow$ Te-e-i-se-ba-a-s
19. $\rightarrow$ K Khal-(di-s $\rightarrow$ y
may Khaldis, the Air-god
20. $\rightarrow$ Y $\dagger$-s $\rightarrow Y \lll-s$ ma-i-ni $\rightarrow Y$ - $\dagger$-ni


(and) tho Sun-god, the gods, him publicly

21. Inida is formed by the loealizing affix -dla from the demonstrative ini.
22. The determinative fixes the meaning of armanidat or armanidad. That the termination denotes the plural of nouns with the localizing affix appears from xxx. 24. See p. 431. Armanis would therefore be 'a text' or 'tablet,' armanida 'the place of texts' or 'tablets,' armanidad 'tablets.'

Khu-a-da may be the 3rd pers. of the present, with the relative understood, '(whieh) one destroys.' But in this ease we should have expeeted the past tense. I prefer, therefore, to make khuada a participle agreeing with armanilad and formed like it by means of the suffix -da. In xxxvi. 6 we find khatu-ni similarly used as a partieiple agreeing with the accusative Argisti-ni. The meaning of the stem khau, here contracted to $k \cdot h u$, as in xxxviii. 13 , is shown by the numerous passages in which it oceurs; e.g. xxxvii. 6, 7, Y Di-a-hu-e-khi <<
 son of Diaves, the king, I destroyed; I conquered the land of Seriazis ; the eities I burued ;' xxi. 8, a-lu-s khu-a-da a-hu-i-e-i ' whoever destroys with water.' Just as the termination -ni of the 3rd person denotes indifferently the singular and plural,

[^173]so too does the termination -daye, -dae or $-d a$, as we see from lines 12 and 19 of the present text. The explanation is given by the fact that the termination is really a participial one (see p. 444).
5. The adjective Menua-ni must agree with Khaldi-ni-ni. Comp. xxii. 4, xxxvi. 5, ete.
6. After a word terminating with the suffix $-n i$, the patronymic -khinis loses, as usual, its nasal (see p. 434). It should be noticed that when the syllable $p u$ in the name of Ispuinis is not followed by $i$, the vowel $u$ is expressed by $\langle$ not $二 Y Y Y$. From this I infer that < represented $\ddot{u}$; whereas the addition of $i$ was required for the representation of this sound when $Z Y Y \sum u$ was employed. The ideograph $E$ YYY $\&$ gives us the ineaning of the equivalent Vannic word tarais. That the phonetic value of tar is to be selected for seems to be indicated by the female name Taririas xxiii. 2, 5; perhaps also by tar-sua-ni' soldiers.' See p. 424.
7. The invariable Assyrian formula: ' $X$ sarru dannu sarru cissati sur mat Assuri (so i. 1, ii. 2), shows that alstuini here is equivalent to the Assyrian cissati 'multitudes.' The word is an adjective in -nis, literally 'belonging to multitudes.' It is thus distinguished from the adjective alsuisis (line 5) from the same stem, which the sense of the passage shows must mean 'multitudinous' ('being a multitude'). Biainae is the genitive singular of Biainas. For the name Biainas see pp. 394 sq. It is interesting to find from the second copy of our text that the diphthong ai might pass into simple $i$. Elsewhere we find it passing into a (e.g. xxxix. 2).
8. The adjective $a l u$-si is formed like $m u-s i{ }^{\prime}$ 'royal' (p. 437) from a verbal stem alu. This of course must be distingnished from the pronoun alus. The most natural sense to be assigned to aluśi miglıt appear to be 'goveruing,' 'ruling;' but I do not think that this was really the meaning of the word. In xlix. 17 we have $\langle\langle-n i>=Y Y B u-i-n i-a l-k h i$. $t u-b i$ 'the king of the people of the eity Buinis . . . . I carried away ;' in l. 2, 'Khilaruadas son of Sakhus' $\langle\langle\rightarrow=$ YY Me-li-
dha-al-khi-e 'king of the peoplo of Malatiyeh;' and similarly in xxxviii. 41 and xxxiii. 16. Here, certainly, we might translate 'Juinis-ruling,' 'Melitene-ruling,' cte., but it seems more natural to take allihe in tho sense of 'inhabitants.' 'This becomes ahmost a matter of certainty when we observe that it is formed from the root al by the patronymic suffix -khinis, which could easily be attached to a root which signified 'dwelling' ('proceeding from the dwelling') but hardly to one which denoted • ruling.' Alu-si-nini is frequently combined with alsuisini, referring to the numerous gods of tho inhabitants of Yan (e.g. xxxvii. 23). Moreover, - II 'lord,' is interchanged, not with alusis, but with churis. Aldinis (v. 29) must belong to another root. Tho meaning of 'inliabitant' for aluśis is finally put beyond doubt by lvi. iii. 5.

The postposition of $-=Y Y$ shows that Dhuspas was called 'the city of Dhuspas,' as being the capital. The noun defined is, as usual, placed after the noun defining it.
10. A-da is ordinarily written adae, as in the 3rd copy of the text, so as to distinguish it from ada 'and' or 'part.' The invariable position of the word after the name of the king in the nominative and at the head of a sentence proves, as Mordtmann perceived, that it must mean 'he says.' As -dae is the suffix, the root will be $a$. The formula is a remarkable one, as it does not appear in the Assyrian inscriptions, but does so in those of the Persian kings, and also seemingly in the Hittite texts of Carchemish and Hamath. I conclude, therefore, that it was of Hittite origin, and was eventually passed on from Yan to the Persian kings. Its use is one of several indications that a system of writing was known in Armenia before the introduction of the cuneiform syllabary, and this system I believe to be that of the Hittite hieroglyphics (see note at the end).

We now come to a formula which forms the conclusion of most of the Vannic texts, like the imprecatory formula at the end of Babylonian, Assyrian, and Persian inscriptions, as well as of many of the Greek inscriptions in Asia Minor. In the case of the latter, the formula is in several instances in the

Phrygian language, indicating its ancient employment in the country before the introduction of the Greek language. ${ }^{1} \mathrm{M}$. Stanislas Guyard, as I have already observed, had the acuteness to notice that this concluding formula of the Vannic texts was similarly an imprecatory one; and, what is more, that it was closely modelled after that of the Assyrian texts. This he inferred from the fact that the ideograph of 'tablet' occurred in the position in which it would stand in the Assyrian formula, as did also the constantly repeated word alus, if this corresponded with the Assyrian pronoun 'whoever,' while the names of the gods found a place just where they would have done in the Assyrian imprecation. He did not, however, carry his analysis of the formula much further; but this, as we shall see, is no difficult task with the Assyrian and Persian formulæ before our eyes. Perhaps I ought first to notice, that while the formula hardly varies at all in the Vannic texts, it does so a good deal in the Assyrian ones. The framework of it, however, always remains the same: "Whosoever removes or injures this tablet and does this or that, may the gods curse and destroy hiin, his family, his memory, and his land!" Bearing this general framework of the formula in mind, it will be seen at once that (1) alus must mean 'whoever,' (2) ini 'this,' and (3) mei 'his,' and that (4) due must denote the 3rd person of the present or future of the verb, while ( 5 ) - $n i$ is the suffix of the accusative of the nom. We know already that -s marks the nominative singular, and that $-a,-i$, and $-e$ represent the genitive and dative. The signification of the first sentence is therefore perfectly clear: alus ini YYY EA tudae 'whoever carrics away this tablet.' Why Ey is added to and eśinis mean ' tablet ' and 'inscription,' and it must therefore be an ideograph. As an ideograph it denoted 'a fonnda-tion-stone,' and the Vannic borrowers of the Assyrian syllabary may have misunderstood the phrase 'tablet of the foundation-stone,' and belicved that it meant 'tablet' only. l'erhaps, however, it represents the phonetic complement of

[^174]the Assyrian word duppa-te 'tablets,' the ideograph and its complement being regarded as a compound ideograph like = YYY * den-nu above. In a-due the termination ean only have a present signifieation, while in uludue below it must have a future sense; consequently $n o$ distinction can have been made in tho Vamic language between present and futnre time. Even in English we ean use the present for the future. Possibly, however, there was an original distinetion between them, the ending of the present being properly -ada or -adne, and that of tho future (or preeative) -da and -due. At all events we have silistuadd in line 4 , while tudae appears in line 10. In this ease $a$ will have been absorbed in the preceding $u$, as has certainly happened in kinubi for k/haubi (sec p. 517), while adae will stand for a-adae. It will be observed that tuas was a participle (see p. 478), and that, therefore, tucula was prinitively a participial form.
11. For pi-tudae see note on line 17.
12. For ainei see note on v. 21. The genitive dative is here used apparently in an instrumental sense.
13. The general sense of tiudac is fixed by zadubi. Its meaning camnot be defined more closely.

Udas(e) is evidently the object to which ies(e) refers, and the analogy of the Assyrian and Persian texts, as well as the introduction of the word $z u d u b i$, makes it certain that $i e s(e)$ must be the relative pronoun. We have already learnt to see a plural accusative in the termination -se (p. 478). The meaning of udas(e) is thus narrowed to either 'stones,' ' works,' 'records,' 'inseriptions,' or 'these things.' We know that the idea of 'inseriptions' is denoted by another word, while if it meant 'records' or 'works' a demonstrative would have to precede it. It must, therefore, either be the demonstrative itself, or else signify 'stones.' The first explanation is supported by udai turi in xliv. 8, where it is difficult to see how the meaning of 'stone' would suit, although the other explanation is countenanced by the comparison of alus ainiei inida dudae line 12 with alus udae inida dudaie xxi. 12. But the question is settled by xxxiv. 18, 19. Taking udas(e) as a demonstrative, we must read the durative case uclas and
ies, since $u d a-s-e$ by the side of udae could only be explained by supposing that $u d a-s-e$ was an adj. in -si.
14. The relative ies seems to have the same root as the demonstrative $i$-ni and the adverb $i u$. See p. 440.

Turinini is a very difficult word. The termination shows it to be the dative plural of an adjective in -nis 'for those belonging to turis.' It always occupies the same position as in the present text. In xliv. 8 and 1.37 , however, we have the phrase tiudae udai turi(e) '(whoever) undoes (it) on this turis,' where the word seems to mean 'rock.' I therefore translate turinini under reserve as 'for all that belongs to the rock.' The analogy of the Assyrian inscriptions would have led us to expect a phrase like 'for future times.' ${ }^{1}$
15. This is the passage which gives us the name of the Air-god. I suspect it was read Teisbas rather than Teisebas.
16. The genitive mei shows that ma-ni must be the acc. of the pronoun of the 3rd person, as does also the position it occupies in the imprecatory formula.
17. The acc. pie-ni is shown to be 'name' or 'memorial' by $p^{i-l l a}$ in xxii. 2,3 , where it can only mean 'place of the name' or 'monument.' It is compounded with pi-tudae in line 11 above, which would therefore be literally 'name-destroy.'
M. Guyard has already perceived that arkhi-uruda-ni must be a compound word, and accordingly have the sense of 'family.' This is further confirmed by the attachment to it of the localizing affix. Ar-khi is formed from the root ar by the patronymic -lihi(nis), and from ar we have the verbal stem aru in aruni 'he brought.' Arkihi, therefore, is literally 'offspring of the bearer,' and must have had the special signification of 'offspring' or 'produce.' Uruda will then mean 'house' or 'family,' and perhaps enters into the composition of the name $U_{r}$-ardhu. I fancy the original meaning of urus

[^175]was 'life,' urvela being 'place of life.' The simple urwatue occurs in li. 8.
18. Inaini contracted into inani (or inüni?) is the acensative of a substantive inais or inas, the sense of which is rendered clear by xlix. 11 , lvi. iii. 5 , and the derivative imamidn xxxvii. 16, etc. The signification of the dative nara is given
 with fire I burned.'
19. The signification of $n a r \hat{a}$ furnishes us also with that of auie, which can only be 'water.' We have already seen that the same signification is demanded by the name of the god Auis (v. 21).

The interpretation of nard and anie gives us the clue to that of uhulae. The stem ulu is fomud in composition in ul-ustaihi 'I gave approach' (xxx. 6) and Kapkar-ulubi (xli. 17). It will be noticed that the people of Van possessed no precative ; the present-future, accordingly, had to take the place of it.

The most interesting fact furnished by the above text is, that inscriptions which had been destroyed had previonsly existed in the place where Menuas set up his own. Now it is difficult to believe that if they had been as recent as the time of his father or grandfather, such a destruction could have taken place, and as they were within the fortifications of the capital, it is not likely that they were erased by an enemy. It would seem, therefore, that they belonged to an older period than that of Sarduris I., who first introduced the Assyrian syllabary into Van; and if so, they would have been in another system of writing. This, I believe, was the system of hieroglyphs used by the Hittites. A careful examination of the rock might reveal some traces of the older texts. As Menuas does not state what they were about, or who had caused them to be engraved, I infer that he could not read them.

Since the chief inscription of the Khazané-Kapussi belongs to a later king (Śarduris II., No. xlix.), I much doubt whether the tomb has any connection with the inscriptions of Menuas.

## XXI. (Schulz XVI.)

The following inscription is cut on a rocky eminence to the right of a rock-tomb ( 70 feet long, about 15 deep, and nearly 8 high) on the east side of the Khorkhor or castle of Van. The chamber is, like all the other rock-tombs at Van, entirely devoid of ornamentation. "Judging from the hollow sound heard in the cavern," says Schulz, "there must be subterranean passages hidden under the mass of stones with which it is filled."

1. $\boldsymbol{Y}$ Me-nu-a-s $Y$ Is-(pu)-hu-i-ni-khi-ni-s

Menuas son of Ispuinis
2. i-ni e-śi za-du-ni śi-iris ${ }^{1}$-si-ni-e
this injunction has made belonging to the cave-tomb.
3. YMe-nu-a-s a-da-e a-da i-nu-śi-i-ni

Menuas says: the whole of the chambers
4. kha-ar-(khar)-ni-e-i śi-ir-si-ni-ni excavated for those belonging to the tomb
อ. te-ir-du ${ }^{2}$-(hu)-ni ${ }^{3}$ i-nu-ka-a-ni
he has executed (both) the suite of chambers
e-śsínini
(and) the inscription.
6. Me-nu-hu-a-s a-da-e a-lu-s Menuas says: whoever
7. pa-kha . . ${ }^{5}$ is-ti-ni-ni si-hu-da a-da the bulls (?) belonging to them removes, and
8. a-lu-(s) khu-a-da a-hu-i-e-i
whoever destroys with water,
9. a-lu-(s) ni ${ }^{6}$-ri-bi is-ti-ni-ni
whoever the dead belonging to them

[^176]10. kha-a-hu-da-i-e a-lu-hu-s i-ni robs (injures), whoever (of) this
 tablet carries away the memory,
12. a-lu-s hu-da-e i-ni-da du-da-i-e whoever these (things) here destroys,
13. tu-ri-ni-ni

- K Khal-di-s $->$
for what belongs to the rock (?) may Khahlis, the bY $-y$ AY ma-a-ni Air-god (and) the Sun-god linn
$14 . \rightarrow y$ - pi-c-i-ni mi mani ar-khi-e$\left\{\begin{array}{c}\text { during the day } \\ \text { in public }\end{array}\right\}$ the name of him, the

15. hu-ru-da-a-ni me-i i-na-i-ni-e family of him, the town
16. me-i na-ra-a a-hu-i-e
of him to fire (and) water
1\%. hu-lu-hu-da-e consign.
17. The sense of sirsinie, which is an adjective in -unis agreeing with the accusative est, is fixed by the context. It is interesting to read in Pliny (N.H. xiii. 73) : "Utilissime servantur tritica in scrobibus, quod siros vocant ut in Cappadacia et Thracia" (cp. Quint. Curt. vii. 4). Solo means 'a hole' in Georgian, and skim is an Armenian word for 'tomb.' The Georgians still keep their corn in pits about $S$ feet deep, the floor being about 6 feet in diameter, and the mouth 2 or 3 feet. The mouth is covered with planks and earth (Parrot, "Journey to Ararat," Eng. tr. p. 67).
18. Iuu-śi-ni is an adjective in skis from the stem inv, connected with inu-ka-ni and imu-ki, on which see iii. 2. The present text settles its meaning. Inu-ka-ai is an accusaltive from a noun formed by the suffix ka denoting 'the family'

[^177]or 'race of' (see note on xxxvii. 18). Applied to objects, as here, it must express the idea of 'a series' or 'suite.' Compare $i k u-k a-n i$ ' a set of grods.' We find inu-ka-ni in xliv. 11 between giei and eśinimi (which last must mean 'belonging to the inscription'). The difference between siris and imus would be that the first is a large rock-tomb, whereas the second is a smaller chamber or niche. Perhaps line 3 refers to the subterranean excavations of which Schulz speaks.
4. The reduplicated khar-khar occurs frequently in the verbal form khar-khar-su-bi ' I dug up,' for the sense of which see xxxviii. 19. Kharkhar-niei will be the accusative plural of a participial adjective in -nis.
5. Ter-du-ni is plainly the same as the ter-tu-(ni) of v. 34 , which there exchanges with the simple teru-ni (line 2). For a parallel softening of dh into $d$ comp. sudlutiubi and sudulutubi. $T e r-t u$ is compounded with tu, 'bring' or 'take away,' like sidisi-tu or pi-tu, and means literally, 'set up + bring away,' i.e. 'to bring so as to set up.' Hal-du appears to be a compound of the same nature from hal 'to sacrifice' and $t u$ ( $d u$ ), and hence we find haltubi in xxxiv. 13. It is possible that the verb du'to destroy' may be merely $t u$ in a softened form.
7. Pakha(ni) is a äтa $\lambda$ үуó $\mu \in \nu o v$, perhaps related to pakhini 'oxen.' Small winged bulls of bronze modelled after those of Assyria have been found in the temple of Ruśas near. Yan. ${ }^{1}$
8. Khuada seens to be a shortened form of khaudaie in line 10. Khaubi 'I ravaged' is the usual form, but we also have khubi in xxxviii. 13. A reference to the passages in which khaubi occurs (e.g. xxxvii. 9, 12) will at once determine its meaning.
9. Niribi must signify the corpses of the dead. Cf. v. 20 and l. 20. For the termination cf. atibi 'thousands.'
12. That the pronoun udae refers to all 'these' things seems clear. It is the accusative plural, as distinguished from the genitive-dative sing. udai which we find in xliv. 8 , xlviii. 19, and 1.37 , and occurs again in xxxiii. 24. In liv. 5, we have the accusative sing. udani. Mordtmann has already translated it as a pronoun of the third person.

[^178]
## XXII. (Selunz XIX.)

This inseription was fonnd by Schulz on the road between Artanit and Vastan, abont two miles S.W. from Artamit, which is itself eight miles S.W. of Yan. It is carved on a piece of roek 14 feet high and 12 feet broad, ealled the Kiziltash or' 'red roek,' ou the bank of the Shamiram-Sn. Between the roek and the river is a small cntting two feet long and deep.

1.     - Khal-di-ni-ni us-ma-si-ni Y Me-nu-a-s To the ehildren of Khaldis the graeious Menuas
2. Ys-pu-hu-i-ni-khi-ni-s i-ni pi-da
the son of Ispuinis this memorial
3. a-ğ11-ni $\quad$ Me-n11-a-i pi-da ti-i-ni has seleeted. Of Mcnuas the memorial he has named (it).
4. -y Khal-di-ni-ni al-śu-si-ni

To the children of Khaldis the multitudinous
$Y$ Me-nu-a-ni belonging to Menuas
5. $\langle<=Y Y Y$ н $\langle<$ al-śu-i-ni << id the king powerful, the king of multitudes, king of the land Bi-a-i-na-e of Biainas,
6. a-lu-hu-śi $-=Y Y$ Dhu-us-pa-e - -YY inhabiting the eity of Dhuspas.
7. Me-nu-a-s a-da a-lu-s i-ni $工=Y Y Y$ Ey tu-da-e

Menuas says: whoever this tablet earries away,
8. a-lu-s pi-tu-da-e a-lu-s a-i-ni-e-i
whoever removes the name, whoever with earth
9. i-ni-da du-da a-lu-s hu-da-sti-u-da here destroys, whoever that undoes
10. i-e-s i-ni pi-da-e a-gu-bi which (even) this memorial I have selected; tu-ri-ni-ni
for what belongs to the rock (?)
11. - - Khal-di-s - may Khaldis, the Air-god (and) the Sun-god, - Y $Y \lll-s$ ma-ni the Gods, him
12.
$-y$ - $\boldsymbol{\text { Hi }}$ pi-i-(ni) me-i ar-khi-u-ru-da-ni in public the name of him, the family
13. me-i i-na-i-ni (me-i) na-a-ra-a of him, the land of him, to fire
14. a-(hu)-i-e hu-lu-(hu)-da (and) water consign.
2. For $p i-d a$ see p. 522.
3. Aguni must signify 'setting up,' 'engraving,' or something similar. For 'setting up,' however, we have teru, for 'engraving' kugu. The sense of agu is more closely defined in the historical inscriptions, where, for example, we are told by Menuas of the soldiers of Alzu, adaki aasgubi adaki Y<<< agubi 'partly I slew, partly alive I took' (xxxii. 9). Consequently agu will correspond to the Assyrian casudu 'to take,' which is used of taking or 'selecting' a site, just as aguni is here.

Both the context and the analogy of the Assyrian inscriptions make it clear that ti-ni must mean 'he has called.' Compare the next inscription, line 3.
10. The syntax of this line must be noticed. Ini pidae are in apposition to the relative -ies.

## XXIII. (Schulz XVIII.)

This inscription is twice repeated on a fragment of rock in a valley two miles west of Artanit and close to the lake. At
some distance from it Schulz found another, unfortunately too much injured by rain and weather to be copied. The latter was engraved on a piece of rock to the left of an ancient aqueduct formed of layers of large polygonal stones, some from five to six feet high, put together without cement.

1. Me-nu-a-i-ni-e-i ( gis-la-a-i ${ }^{1}-8$

Belonging to Menuas of the mother,
2.

人 5 Ta-ri-ri-a-i i-ni =Y ul-di
Taririas, this monument
3. $\hat{r}^{2}$ Ta-ri-ri-a-khi-ni-da ti-i-ni
the place of the son of Taririas she has called.

1. Menuai-niei is the genitive-dative of an adjective in -nis, formed from Memua(s), and agreeing with gislaye. Line 3 seems to show that the latter must mean 'mother' rather than 'wife' or 'sister' or 'daughter,' and that the inscription was engraved by her orders. Hence it is that the usual postscript giving the royal titles is omitted. The inscription is strictly co-ordinate with the preceding one, the memorials of the king and his mother being set up in the same neighbourhood near one another, and couched in similar terms. Perhaps they served to commemorate the completion of the conduit, which was doubtless mentioned in the inscription now destroyed. It is possible that the large part played by Semiramis in the legends of Aryan Armenia may have been partly due to a tradition of a queen who had once set up monuments of herself in the neighbourhood of Lake Van. Taririas may be derived from tarayis 'powerful.'

## XXIV.

This inscription is on a stone presented to Mr. Hormuzd Rassam. I have made the copy from a squeeze.

## 1. -y Khal-di-ni-ni <br> To the children of Khaldis

[^179]2. us-ma-a-si-i-ni
the gracious,
3. YMe-i-nu-hu-a-s

Menuas
4. YIs-pu-hu-i-ni-khi-ni-s
son of Ispuinis
5. i-ni $=Y Y Y Y$ za-du-ni
this house has built.
6. a-se


Let the gods eat (?) day (and) month
7. - K Khal-di-i-e-i for Khaldis,
8. -y -ri-s nu-hu-s

O Saris the queen.
6. For the difficult word ase see note on v. 29. It can hardly mean 'houses' here. Nor would it be easy to translate it as a pronoun.

The suffix -me in askhu is new to me. It may perhaps stand for mei, askhu being the plural ('his' or 'her foods'). It cannot be $Y_{-}$'one hundred,' as no sign of plurality follows the ideograplis of 'day' and 'month.' But we find it attached to the word khasi-alme in the phrase khasi-al-me $\rightarrow Y$ Y<< (xxxviii. 10, etc.), where the use of the ideograph for 'gods' confirms the translation of ase by 'gods' here. See note on xxxviii. 10 .
7. I do not know whether Khaldiei is here the dative, or a genitive governed by mus.
8. For nus see p. 489. This passage shows that Vannic did not indicate a difference of gendor.

This is the only inseription in which mention is made of the goddess Saris, apart from the royal name of Śari-duris with which it is compounded. Indeer, it seems doubtful whether the people of Van worshipped any other female deity. The rarity of the mention of Śaris, and the fact that the name
is written ideographically like that of Istar in Assyrian, and not phonetically like Khaldis, makes me think that Mr. George Smith was right in supposing it to have been borrowed from the Assyrian Istar. For a similar suppression of the dental compare Bitani and Biaina(s) (see lvi. iii. 3). At any rate it is remarkable that the introducer of the Assyrian mode of writing and the Assyrian language into Van should have been Śari-duris I. Perhaps the slight resemblance of the word Saris to Semiramis, coupled with a tradition of the introduction of the worship of Istar, i.e. Semiramis, into Armenia, led to the legend of Semiramis recounted by Moses of Khorene.

## XXV. (Selulz XXVIII.)

The following inscription lias been also copied by P. Nerses Sarkisian. It is cut upon a stone now used as the altar of the little chureh of Warrak-Kilissa or Yadi-Kilissa, six uiles east of Van.

1.     -         - Khal-di-i-ni-ni us-ma-a-si-i-ni

To the children of Khaldis the gracious
2. YMe-nu-a-s YIs-pu-hu-i-ni-khi-ni-s

Menuas son of Ispuinis
3. i-ni $=$ YYYY bar-ś-su-di-bi-i-du-ni
this chapel
4. za-a-du-hu-ui Y Me-nu-hu-a-i has built. Of Menuas
5. ZYYYY bar-śu-di-i-bi-i-(du)-ni ti-i-ni the chapel he has called (it),
6. YMe-i-nu-hu-a-ni-i ${ }^{1}$ a-i-e belonging to Menuas in the land.
5. Menuani must be an adjective agreeing with aie. The latter is not in the locative ease, as we should have expected,

[^180]but in the dative, so that the phrase runs literally '(the chapel) of the land.' For ayis see note on v. 21.

## XXVI.

The following three inscriptions are also found on stones in the church of Yadi Kilissa, the first two of them being twice repeated. They are taken from squeezes made by Mr. Rassam. Schulz (Nos. xxix. xxvii.) and Nerses Sarkisian (Nos. i. ii.) have copied the first two of them, but not quite correctly. Layard's copies, on the other hand, are extremely accurate.

1. $\rightarrow$ Khal-di-ni-ni us-ma-a-si-i-ni To the children of Khaldis, the gracious,
2. Y Me-nu-a-s Y Is-pu-hu-i-ni-khi-ni-s Menuas son of Ispuinis,
3. $\rightarrow$ Khal-di-i-e e-hu-ri-i-e to Khaldis the lord
4. i-ni $\overline{H f}$-YY pu-lu-hu-śi ku-gu-ni this inscribed stone has written,
5. YMe-nu-a-ni $\quad$ Is-pu-hu-i-ni-e-khe belonging to Menuas, son of Ispuinis,
6. $\langle\langle=Y Y Y \geqslant\langle\langle+B$ Bi-i-a-i-na-hu-e the powerful king, the king Biainian,
7. a-lu-śi $\quad \underset{\sim}{-}$ YY Dhu-us-pa-c - -YY inhabiting the city of Dhuspas.
8. The determinative shows that the stone itself is spoken of. Bulusi, however, cannot be the word for 'stone,' since the termination shows it to be an adjective, like musi ' royal,' agreeing with Fry $\langle Y$. It must, therefore, signify 'inscribed.' 'engraved.' 'This fixes the meaning of the accompanying verb kugu-ni, which cannot denote 'setting up,' which is toru,
or 'selecting,' which is agu, or 'building,' ' making,' which is zulu. 'The seuse of 'engraving' or 'writing' is consequently alone left for it.
9. Instead of the usual kihi, at the end of this line, we have , proving that the value of this character in Vamnic was the, though it may also have been khi, as in Assyrian. But the Vannic syllabary avoids homonyms.

To Teisbas Menuas,
10. ${ }^{1}$ ls-pu-hu-i-ni-khi-ni-s son of Ispuinis,
11. i-ni - fry pu-lu-hu-śi ku-gu-ni this inseribed stone has written,
12. $Y$ Me-nu-a-ni $\quad Y$ Is-pu-hu-i-ni-e-khe belonging to Menuas son of Ispuinis
13. $\langle\langle=\mid Y Y\rangle\rangle\langle\langle\nmid B i-i-a-i-n a-h u-e$ the powerful king, the king Biainian,
14. a-lu-śi $\underset{=}{-y} Y$ Dhu-us-pa-a-e $\rightleftharpoons=Y Y$ inhabiting the city of Dhuspas.
15. We may notice the phonetic complement of the dative Teisb-a.
16. (-斗 Khal-di-ni-ni us-ma-)a-si-i-(ni) To the children of Khaldis, the gracious,
17. ( ${ }^{(1)}$ Ie-nu-a-s $\boldsymbol{Y}$ Is-pu-hu-)i-ni-khi-ni-(s)

Menuas son of Ispuinis
3. (i-ni bar-śu-di-)bi-i-(du-ni)
this (chapel)
4. (za-du-ni $\quad Y$ Me-)nu-a-(ni)
has built belonging to Menuas . . .
The next two lines are destroyed.

## XXVII.

This inscription is on a block of black basalt, $6 \frac{1}{2} \mathrm{ft}$. by $2 \frac{1}{2} \mathrm{ft}$., found at Karakhan, 40 miles N.E. of Van, and near the Lake, and is twice repeated. The copy is made from a squeeze, and is published for the first time.

1.     - Khal-di-i-e

To Khaldis
2. e-hu-ri-i-e
the lord
3. i-ni $\operatorname{Hy}$ pu-lu-si-e
this inscribed stone
4. Me-i-nu-hu-a-s

Menuas
5. Y Is-pu-u-i-ni-khi-ni-s
son of Ispuinis
6. ku-hu-i-gu-hu-ni has written,
7. $->$ Khal-di-i-ni-ni
for the children of Khaldis,
8. al-śu-hu-i-si-ni
the multitudinous,
9. YMe-i-nu-hu-a-ni
belonging to Menuas
10. Y Is-pu-hu-i-ni-c-khi son of Ispuinis
11. $\langle\langle=Y Y Y \nmid\langle\langle$ al-śu-i-ni the powerful king, the king of multitudes

## 12．\ll i Bi－a－i－na－hu－e

the king Biainian，
13．a－lu－hu－śi－e
inhabiting
14．$\rightarrow=Y$ Dhu－us－pa－a $-=Y Y$
the city of Dhuspas．${ }^{1}$

## XXVIII．（Schulz XXII．）

The following mutilated inscription is on a stone at the entrance of the church of Sikke or Sirka，a village six miles N．E．of Van．The last eight lines are copied from a squeeze made by Mr．Rassam；for the first three I have only Schulz＇s copy．
${ }^{1}$ A duplicate of this inceription was found by Schulz on a stone at the entrance to the bazaar at Van，which like the one given in the text is twiee repeated．It is，however，almost wholly destroyed，ouly the ends of the lines remaining．But it is easy to restore it ：－

1．（一）Khal－di－ni－ni us－ma－si－ni）
2．（i－ui $-\underset{f}{\langle r}$ pu－lu－sii）\Me－nu－（a－s）
3．（Y Is－pu－u i－ni－）khi－ni－（s）
4．（ku－hu－i－）gu－（ni）
5．（－y Khal－di－i－）ni－（ni）
6．（al－śu－hu－i－si－）i－（ni）
7．（Me－i－nu－hu－）a－（ni）
8．（Is－pu－ha－i－ni－）e－（khi）
9．$\left(\left\langle\left\langle=M_{Y}^{Y} \not \subset\langle\langle\right.\right.\right.$ al－$) s$ su－ni
10．（ $\langle<\langle$ ，Bi－a－i－）na－e
11．（－）Kihal－di－ni－ni us－）ma－si－ni
12．（i－ni
13．（Y Is－pu－u－i－ni－khi－ni－s）
14．（ku－hu－i－）gu－ni
15．（ $-y$ Khal－di－i－）ni－ni
16．（al－śu－hu－i－）si－i－ni
17．（ Me－nu－）hu－a－ni
18．（Y Is－pu－hu－i－）ni－e－（khi）
19．（ $\left\langle\langle=| Y_{Y}^{Y} \nsucc\langle\langle\right.$ al－－）śu－ni
20．（ $\langle\langle\perp \mathrm{Bi}-\mathrm{a}-$ ）i－na－e
21．（a－lu－sí $-=Y$ Y Dhu－）us－pa－$=\mid Y$

1. ... ( ( Me-)nu-a-(s)

Menuas
2. $a-d a$ (a)-lu-s
says: whoever
3. i-ni ( $\overline{\text { ff }}\langle\hat{y}$ pu-)lu-śi
this inscribed stone
4. e-śi-i-ni
(and) the inscription
5. śu-u-i du-da-e
all (?) shall destroy,
6. tu-ri-ni-ni
for all that belongs to the stone (?)
7. $-\boldsymbol{y}$ (Khal-)di-(i)-s may Khaldis
8. - Y ary-s - $x$ - $y$-s
the Air-god (and) the Sun-grod
9. ma-ni ar-mu-zi lim with a curse (?)
10. Kौ है —y (Ay) pi-ni
four times four during the day the name
(11. me-i ar-khi-hu-ru-da-ni me-i i-na-i-ni me-i of him, the family of him, the land of him
12. na-ra-a a-hu-i-e hu-lu-da-e to fire (and) water consign.)
5. For śui see xix. 16. The suffix $-n i$ is omitted with the adjective, as it has been already attached to the substantive.
9. Armuzi occurs, again, in a similar phrase in xliv. 16. Here instead of it it ' $4+4$,' we have it fil ' $4+4$ times.' Armuzi is the genitive-dative, which, as we have seen, may be used as an instrumental; I conjecture, therefore, that the word means 'with a curse.' For the termination comp. galazi xi. 4.

## XXIX. (Schulz XX. XXI.)

The tivo inseriptions whiel follow are engraved on the top and bottom of a round stone, now built into the court of the ehmreh in the island of Aghthamar in the southern part of Lake Van. They have also been eopied by Layard and by Nerses Sarkisian (Nos. viii. vii.). The mutilation of the eharacters shows that the stone was originally square, and was rounded after the inscriptions had been engraved upon it, sinee the lost charaeters have been destroyed by the attempt to make it eircular.

## A.

1. (->) Khal-di-i-(e)
'To Khaldis,
2. e-hu-ri-i-e
the lord,

this inseribed stone
3. (1) Me-nu-hu-a-s ${ }^{2}$

Menuas
5. (1) Is-pu-u-ni-khi-ni-(s) son of Ispuinis
6. (ku)-hu-i-gu-hu-ni has engraved
7. - 4 Khal-di-i-ni-ni ${ }^{3}$
to the children of Khaldis
8. (al-)śu-si-ni Y Me-nu-a-(ni)
the multitudinous, belonging to Menuas
9. (才 Is-)pu-u-i-ni-e ${ }^{4}-\mathrm{khi}$
son of Ispuinis,
${ }^{1}$ So Layard. ${ }^{2}$ So Layard. ${ }^{3}$ So Layard. ${ }^{4}$ So Layard.

# (10. $\left\langle\left\langle=\right.\right.$ YYY $\left._{Y}^{Y}\right\rangle\langle\langle$ al-śu-i-ni the powerful king, king of multitudes, 

11. $\ll$ さ Bi-a-i-na-hu-e the king Biainian,

inhabiting the city of Dhuspas.)
In line 3 all the copies omit the determinative of 'stone,' which must, however, have originally stood here. The copyists have overlooked the second part of the character $(\boxed{47}<\mathrm{Y})$. The conclusion of the inscription is restored from No. xxvii. It probably occupied four rather than three lines.

> B.

1. . . $Y^{1} \xlongequal[=]{-z Y}$ A-khi-u-ni-ka-ni
. . . . . the city of Akliunikas
2. . . . . (us-ta-di) ${ }^{12}{ }^{2}$ E-ri-nu-i-di . . .
.... on approaching the country of Erinuis
3. ... Y Me-nu-a-khi-na-a-di
.... in the district of the son of Menuas . . . .
4. . . . . . . ku-dhu-bi pa-ri mu ${ }^{3}$-na-a . . . I departed out of the island (?) ...
5. . . . A A-i-du-ni Å-ni..

Aidus country...
6. . . . . (śu ? ?)-hu-i-ni e-śi-ni . . .
.... all (?) the inscription
7. ..... pi ${ }^{\text {4}}$-da-e $\quad$ a-gu-hi
.... the memorial I have selected...

[^181]S. . . . . (al-) śu-i-si-ni su-i-ni ${ }^{1}$-(nii) . . .
. . . . . to the multitudinous, of lambs (the flesh) . . . .
9. .... (i)-ni pi-d $\quad$ a-gu-(bi) . . . .
.... this memorial I have selected
10. .... (Y Me)-nu-a-s ${ }^{2}$ a-da ${ }^{3}$. . . .

Menuas says:...
The rest is destroyed.
2. For ustadi and kudhubi pari see xxx .1.
3. For the territorial termination in -nas eonfer Khati-nas 'Hittite,' and p. 434. Just as Menuas had been associated by his father in the government, he must have given a distriet to his own son.
4. Elsewhere the phrase kudhubi pari is always followed by the name of a country or town. Here, therefore, we may perhaps translate munâ as 'island.'
5. Ebani is added to explain the preeeding proper name, although the latter is provided with a determinative prefix, just as in the ease of $-=\| D u-u s-p a-a=\eta$. It should be notieed that the defining word follows that whieh is defined.
6. We eannot read ini 'this' here, since in that ease we should have eśi and not eśi-ni.
8. For sumini see xi. 4.

It is plain that this inscription onee occupied a mueh larger space than the one on the opposite side of the stone. As the latter, however, was put up by the same king, the original stone must either have been intended to be seen and read on bot'h sides, whieh does not seem very probable, or a stone already used by Menuas for inseription A must have been again utilized by him after his visit to the island of Aghthamar. From line 3 it would appear that the visit was paid towards the end of his reign, when he was beginning to associate his son Argistis with himself in the government. As has been previously noticed, Akhiunikas seems to be the modern Akharank, but it is diffieult to say whether the name of the island

[^182]was Erinuis or Aidus. More probably it was the former, Aidus being the mainland opposite. See p. 395.

## XXX. (Schulz XLII.)

This important inscription has been copied by Schulz and Robert only. It is engraved on a rock called the Yazlu-tash or 'written stone,' on the southern cliff of a mountain in Kurdistan, eight miles N. W. of Daher (north of Lake Van) and a few minutes from the small village of Yazlu-tash. Daher is close to Melasgerd (i.e. Manavaz-gherd, 'the town of Menuas (?)'), which lies on the banks of the Murad (Euphrates) on the road from Ardish to Erzerûm.

1. -y Khal-di-ni us-ta-bi ma-si-ni

To the Khaldi's I have approached, to the powers

$$
\begin{aligned}
& \text { gis-su-ri-e } \\
& \text { mighty, }
\end{aligned}
$$

2. $Y$ Di-a-hu-e-khi-ni-e-di it tar-a-i-hu-e-di in the powerful country belonging to the son of Diaus.
3. $-y$ Khal-di-i ku-ru-ni $\rightarrow$ Yhal-di-ni gis-su-ri-i

To Khaldis the giver, to the Khaldi's the mighty
4. ku-ru-ni, $\rightarrow$ Khal-di-i-ni-ni us-ma-a-si-ni the givers, to the children of Khaldis the gracious
5. us-ta-bi $\quad$ Me-nu-a-ni

I have approached. To those that belong to Menuas Y Is-pu-hu-i-ni-e-khi the son of Ispuinis
6. hu-lu-us-ta-i-bi $\quad$ Khal-di-ni Y Me-nu-a-s I have approached with offerings, tho Khaldi's. Menuas
7. a-da-e kha-hu-bi Y Di-a-hu-e-khi
says: I have conquered belonging to the son of Diaus
\& -ni-i-0
the lands (and)
S. $=-=Y Y$ Sa-si-lu-ni $\rightarrow=Y$ Y $\langle<$-śi liha-hu-bi
the city of Sasilus, the royal city. I have conquered gu-nu-sa-a for a spoil
9. \& e-ba-a-ni a-ma-as-tu-bi $=Y Y Y Y=Y-Y \lll<-s i-d a$ the country. I liave plundered the palaces.
10. ku-dhu-hu-bi pa-a-ri-c tit Se-se-e-ti-i-na-a

I have departed out of the land of the Sesetians,
11. $-=Y$ Zu-a-i-na-a $\quad=$ YY Hu-dhu-klaa-a-i
the city of the Zuaians (and) of the city of Udhukhais a-śsu-ni the $\left\{\begin{array}{l}\text { neighbourhood. } \\ \text { midst. }\end{array}\right\}$
12. YMe-nu-a-s a-da-e Y Hu-dhu-pu-ur-si-ni 〈〈 Henuas says: Udhupursis, the king,
13. YDi-i-a-hu-e-klii nu-na-bi ka-a-i-hu-kid the son of Diaus, I attacked with arms (?).
14. sa-tu-a-da ku-ri-e-da śu-lu-us-ti-i-bi

Hostages (and) tribute I imposed.
15. śi-lu-a-di na-ku-ri ha-al-du-bi me-si-ni pi-i On receipt (?) of the gifts (?) I changed his name.
16. a-ru-hu-ni $\langle Y Y \nmid Y\langle Y Y$ a-ru-hu-ni me-e-s He brought gold (and) silver; brought he
17. a-da - - 1 - ta-as-mu-s bad-di-ma-a-nu bi-du-ni and the princes, all and each, the priest
18. i-bi-ra-a-ni $\quad Y$ Me-nu-hu-a-s a-da-e (and) the people. Menuas says :
19. ka-am-na-a $\Delta Y$-da $Y$ Di-a-hu-e-khi-ni-i the many possessions of the son of Diaus,
20. $\qquad$ horses,
ha-a-kha-a-hu chariots,
21. $=\boldsymbol{\gamma}-\mathrm{a}$-si $Y \lll<$ as-te-hu-i-hu-ni $a-s a-a-z i^{1}-\theta$ charioteers, of the magazines the . . . . .
22. khi-i-ni-e si-hu-bi $=$ khu-hu-ra-di-(i)-a the sons of, I carried off; the army
23. ma-a-śi-ni-e-i-a-ni
a-sa-zi-e-(khi $\left.{ }^{2}-n i-\right) e^{3}$ the officers, the sons of the .
24. $\ Y \ll\langle\lll<-d a-d a-e-d i-n i \quad s u-d h u-k u-(h u-) b i$ the people of the two kingdoms I despoiled:
25. Y Ba-al ${ }^{4}$-tu-hu-ul-khi-e of the son of Baltul the countries,
26. - YY Kha-al-di-ri-ul (? $)^{5}$-khi tie-ba-a-ni-i-e of the city of Khaldi-ri-ulkhis the countries,
27. EYYY EY- Y<<< a-si-da a-gu-hu-ni-e-da the palaces, the spoil,
28. tit e-ba-ni-a-tsi-e-di-ni su-dhu-ku-bi (and) the seat of government I despoiled.
29. YMe-nu-a-s a-da.e a-lu-s i-ni $\Rightarrow Y Y Y$ terb Menuas says: whoever this tablet
30. tu-da-i-e a-lu-s pi-tu-da-i-e removes; whoever removes the name;
31. a-lu-s a-i-ni i-ni-da du-da-e whoever with earth here destroys;

${ }^{4}$ Schulz has $=\langle\boldsymbol{Y} d u$, but alr. 16 shows that we must read $=\\langle \$ al.
${ }^{5}$ Schulz has $Y=Y$, which looks like the deterwinative of 'man,' followed by the character for ' ox .'
${ }^{6}$ Schulz has la.
32. a-lu-s hu-da-s ti-hu-da-e i-e-s za-du-bi whoever that undoes
33. tu-ri-ni-ni
for all that belongs to the rock (?)

## - Y AH-s - A - - ni-s

 the Air-god (and) the Sun-god,34. $\rightarrow$ Y $Y \lll-s$ ma-a-ni $\rightarrow$-ni pi-i-ni me-i ar-khithe gods, him publicly, the name of him, the fa-
35. hu-ru-da-a-ni me-i i-na-i-ni
mily of him, the city
36. me-i na-ra-a a-hn-i-e hu-lu-da-e
of him to fire (and) water consign.
37. The verbal usta-bi cannot be separated from the locative usta-di, which occurs frequently in the historical inscriptions in the stereotyped phrase usta-di \& $x$ khaubi \& $x$, kudha-di parie ta $y$ (xxxvii. 9, 10), or usta-di it $x \ldots$ cudhu-bi pari \& y (l. 12, 13). Here the stereotyped formula of the inscriptions of Assur-natsir-pal and Shalmaneser,-" to the land . . I went, from the land . . . I departed,"-comes to our assistance. Usta-di must mean 'on approaching' or 'after entering.' The latter signification, however, is excluded (1) by the fact that the idea of 'after' is denoted by the suffix - $l i$ and not -cli, and (2) by the use of the rerbal usta-bi in the formula we are now considering. The first signification, therefore, is the only one possible. The Assyrian karabu 'to approach' is used in a similar way to nstabi in the sense of 'approaching in prayer,' the derivative ikribu having in fact the meaning of 'prayer' only.

Maśini is a dative plural of a derivative adjective in -śi from a stem ma. It cannot, however, agree with Khaldini, as in this case we should have maśie, not maśini, and it must, therefore, be in apposition with it. Maśini, consequently, must be au adjective used in an abstract sense of the Vannic deities. Its most natural signification would then be 'powers,' like the

Assyrian emuki, which is employed in a similar way, and this signification is verified by our finding the word used in line 23 of persons belonging to the army.

For gissurie see v. 28.
2. This line must be read Diave-khinie-di eba(ni)-taraire-di, eba or ebani being the first part of a compound substantive with which the prefixed adjective Diare-khinie-di agrees. We must notice that the locative suffix is attached not to the simple tarais, but to the stem tarai furnished with what may be called the topographical suffix hue or $r e$. It is this suffix which shows that we are dealing with a compound which is regarded as a single geographical name, 'The son of Diaus' is mentioned by Argistis (No. xlv., etc.), from which we may infer (1) that the expression denotes 'descendant' as well as 'son,' and (2) that Diaus or Diaves was the founder of a dynasty or kingdom. In the same way Jehu is called 'the son of Omri' in the Assyrian inscriptions. From line 12 we find that his name was Udhubursis. The locality in which the inscription is found fixes the situation of his kingdom. See p. 399.
3. Kuruni would be the dative of an adjective in -nis. though in this case it is curious that we do not find kurunie as the pl. dat. line 5 . Karmi frequently occurs by the side of kuruni (e.g. xxxvii. 17). An instructive passage is xlix. $1-4$, where we have:

Khaldi-ni usta-bi maśinie gissurie karu-ni ta
'To the Khaidi's I prayed, to the mighty powers, who have
Ma-na-ni cbanic (Śariduri-kai)
given the land of the Minni to the race of Sarduris

## Khaldi kurmi Khaldi-ni-ni gissurie

to Khaldis the giver, to the mighty children of Khaldis

## kiuremi usta-bi Śariduri-ni

the givers I prayed, that belong to Śarduris.'
Here the parallelism of the two clauses shows that the only difference between karmi and kurumi lies in the second being used absolutely, while the first has an accusative case after it. 'The only possible meaning of the words in the first clause is
'who have given the land of the Minni to the race of Sarduris.' The difference between the verb and the noun is thus expressed by a difference in the vowel; but whereas the usual rule is that $u$ as the final vowel of the stem marks the verb and $a$ the noun, here $a$ in the first syllable marks the verb and $u$ the noun. We may compare khuada and khaudaie in xxi. 8, 10. The spelling karunic in xxxiii. 2 shows that the verbal form is really a participle. See xix. 5.
6. UTustaibi is a compound of $u l u$, which we find in ulu-duic 'may they consign,' and ustabi, so that it means literally 'gift+approach.' We have another similar compound of which ustabi forms the second element in śulustibi, line 14. The diphthongization of the final $a$ of the stem, which is further contracted into $\{$ in sulustibi, is difficult to explain. It may either be caused by the lengthening of the stem through composition, and the consequent falling of the accent on the penultima, or the original form of the first person of the verb may have been ustaibi, which was contracted on the one side into ustabi, and on the other into ustibi. The latter explanation is perhaps supported by the fact that the final vowel of the verbal stem is usually $u$ not $a$. Possibly, however, the diphthong is really due to the false analogy of Biainas and similar words by the side of Bianas and Binas.
8. The dative singular gunusâ is always coupled with khaubi. Akin to it is the word gunusint, which is preceded by the determinative of 'people' and a numeral, and is among the objects carried away from a conquered land (e.g. xlix. 10). The position in which it occurs seems to make it certain that it means 'slaves.' Now gunusin $\hat{\imath}$ is the accusative plural of an adjective in -nis (or rather -inis, the $a$ of the stem being changed into $i$ before the $i$ of the suffix -nis), and this would properly denote 'what belongs to gunusas.' The signification of the latter word is thus clearly 'spoil,' and the phrase gunusa khaubi would exactly answer to the stereotyped formula of the Assyrian texts 'for a spoil I took.' It may be noticed that we have indifferently gunusâ kikaubi and khaubi gumusâ.

[^183]9. Amas-tu-bi, the sense of which is fixed by the context, is a compound of $t u$ with an adverb, similar to sidis-tu and nulus-tu.

For asida 'site of houses,' i.e. 'palaces,' see p. 459. We learn from this word that - $d a$ denoted the plural as well as the singular, or rather was attached to a plural as well as to a singular form. Asida stands for asie-da, i.e. stem + plural sign + localizing affix.
10. The meaning of kudhubi has been explained above (note 1). By the side of kudhubi we find the locative of the noun kudha-di (e.g. xxxvii. 7) 'on (my) departure,' which illustrates the different application of $u$ and $a$ as final rowels of the stem.

Parie also appears under the shorter form of pari, and always follows kudhubi or kudhadi. As the next word is invariably the name of a country or town, it must represent the preposition 'out of.' The termination will be the same as in sidisi. The verb paru-bi, to which it is related, interchanges with $t u-b i$, and I imagine the difference between them to be that, whereas tubi is 'I carried away,' parubi is 'I carried out of.' In xlix. 12, we have the compound par-tu-se 'captive.' Parie or pari is followed by the genitive-dative. See x . i .

We must read 'Sesetians,' since -nas is the territorial suffix as in Khati-nas 'Hittite.' This was probably also the origin of the final syllable in Biainas.
11. As the city is elsewhere called Zuais (xlv. 3), -nas must here also be the adjectival suffix.

Aśuni always follows the name of a town which stands in the genitive, and once we lave aśunini.! As it is governed by pari, it must be either a dative plural or a dative singular ${ }^{1}$ The passages are: xxxiii. 14 , (khau-) ni $-Y Y$ Puteria aśuni' who has conquered of the city of Puterias the neighbourhood (?)'; 1. 15, kudhubi pari it Musanie -YYZapsa as'uni 'I departed out of the land of Musanis (and) the neighbourhood (?) of the city of Zapsa'; sli. 18, - YY Bikhurani aśunini it Bamni 'the city of Bikhuras (and) the county of Bam belonging to the neighbourhood (?).'
of an arljective in -nis. The word may be related to assi 'horsemen,' and so mean 'population'; but as this idea is generally expressed by the suffix -rectia, it is better to regard aśis and aśus as distinct nouns, the latter signifying ' neighbourhood ' or 'border.'
13. The sense of nuna-bi is fixed by the context here and the other places where it occurs. See xlix. 11, inani <<-e numâbi 'the land (and) kings I attacked.'

Kaukid (or kaynkiul) is written killu-ki-e in 1. 23. The analogy of the Assyrian inscriptions would suggest 'with weapons' or 'with figlting' as the translation of the adverb.
14. The five words which follow are found in $1.23,24$, the only difference being that here the word sulustibi comes first. Sa-tu-ada must be a compound of tu and sa; the analogy of the Assyrian texts would make the signification 'homage' or 'hostages.' The second meaning is shown to be the true one by the verb satu-bi in 1. 17, as well as by the collective suffix. Satua would be 'the people of removing from there.' The localizing affis gives an abstract (i.e. here a plural) force. We can easily understand how 'the place' or 'position' of a thing came to denote an abstract. Kurê-da is clearly from the same root as kuru-ni, and must literally be ' a place ' or ' position of giving'; and so the abstract 'gifts,' 'tribute.' The sense of śulustibi is settled by the context. It is a compound of ustaibi, possibly of ulustaibi, in which calse the initial sibilant will have a causative meaning.
15. The locative śiluadi occurs again, with nakuri following, in 1. 24, where we have 'on receipt of the gifts (?) I carried away (nakhubi) the gold and silver.' My translation of the two words can only be conjectural, and the gentilic or collective suffix of silu-a-di implies a rendering 'among the men of . . . '

In xxxiv. 13, 1. 26, haldubi is written haltubi, which shows that it is a compound of $t u, t$ being softened into $d$ after $l$ in the more usual form (see p. 427). As hal means 'to sacrifice,' $h a l+t u$ will be 'slay + bring away,' i.e. bring into a state of slaughter. Mesini is the accusative sing. of mesis, an adj. in -s from mes, the third personal pronoun, and must therefore
signify 'his' or 'its.' $P i$ is 'name,' the accusatival suffix being omitted, as it has been already expressed in the preceding adjective. Had the adjective followed, we should have had pi-ni mesi. The parallel Assyrian inscriptions show that the meaning of the phrase must be 'I changed his name." Hence haldubi is literally 'I destroyed' or 'obliterated.'
16. For aruni see notes on ardi-s-e and Sel-ardis, v. 2, \%. The sense is fixed by the context in the various passages in which aruni and arubi occur.

It is noticeable that the affix of plurality is attached not to both words 'gold' and 'silver,' but only to the last. This proves that when the conjunction is omitted between two nouns, the nouns may be regarded as a single compound, and the index of grammatical relation accordingly attached to the last of them only. Compare the note on dusisiu-li-ni-ni, v. 31. We learn from xlv. 20 that 'gold' was pronounced tuaies in Vannic.

Mes, it is clear, is the nominative of the genitive mei' of him.'
17. The termination of tasmus shows that it is co-ordinate with mes, so that ada must here be the conjunction 'and.' We have already seen that in v. 25 (70) ali is this conjunction, and it is therefore plain that the copyist has confused together the two characters $Y<Y$ and $-Y<Y$, as in other cases. The determinative prefix of tasmus proves that it denotes a class of people, and as the latter are coupled with the king it must mean his highest officers or 'princes.' Perhaps we should read tasmuse, in which case the nominative pl. would have the same form as the acc. pl. instead of as the nom. sing.

Baddi-manu must be a compound of baddi 'all' and mamn 'each.' For the first see v. 24, and for the second v. 2. The word seems to be in the accusative plural, and accordingly in apposition to bidu-ni and ibira-ni.
19. For lamnâ see vii. 4. It must be construed as forming the first part of a compound, the latter part of which consists of the adjective ' many.' The whole is then used as an abstract with the suffix da, like satuade and kureda above. It should probably be read lamnâ-alsuisida.

Observe the genitive Diavekhint, which preserves the final
nasal of the suffix, in contrast to the accusative (used adjectivally), which drops it (line 25).
20. The accusative plural of the Vamnic word for 'horse' is shown by this passage to liave terminated in $v u$, so that the nominative sing. would have ended in -vius. From xlv. 26 we gather that the whole word was navus.
The position of $a$ śis, which has the D.P. of a class of persons, defines its meaning exactly.
The context settes the meaning of hakhau, acc. pl. from hakhaus, while that of astenynni seems fixed by parallel passages in tho Assyrian texts. The word is written ustiluu in the plural in xliii. 42, and the ideographic $=Y Y Y Y$ $Y \lll$ is found in xlv. 21, 25. The word is here adjectival and seems tu agree with asaze-kikinic. This word denotes 'sons of. ..,' and the sense requires an equivalent to our 'engineers' or 'commissariat officers.' With the termination of asazic compare gala-zi. Notice the separation of the patronymic suffix kilinie from the word to which it is attached ; see p. 425 .
22. As Mordtmanu perceived, the position in which the word khuradia is constantly found in the historical texts nakes it quite clear that it must signify 'soldiers' or 'army.' The word is literally 'men of the klluradis' or 'army.' Comp. tarsua.
For maśmieya-ni see maśmi, line 1. The word is the acc. sing. of a noun formed from the adjective maśinis by the gentilic suffix -a. Consequently it means 'men of the powerful,' i.e. 'officers.' For the form cf. arnuyada, xxxi. 4.
24. Nu-da-da-edl-ni is au instructive word. The reduplication of the suffix -da to denote the plural (or the dual ?) has already come before us in armanidad (p. j17). Here the full vowel termination of the second syllable of the reduplication is retained before the suffix which follows. Nu-da-da would be literally the 'kiugdoms.' The suffix of agency which is attached to it is separated from $d a-d a$ by the vowel $e(d a-d a e)$. This same suffix is frequently added to the adj. in -ve; e.g. xxxvii. 9, $\uparrow$ Zabakhae-vedi-a 'the inhabitants of Zabakhas,' xxxvii. 13 , 远-vedia-ni 'the female folk.' See below, line 28 .

The meaning of śudhukubi is determined by 1. 26, 27. where we have III ase-cli suduṭubi abidadubi 'in three palaces I plundered, I burned with fire.' It will be noticed that in this passage $d h$ is softened into $d$, and that we find the locative in place of the accusative.
25. Baltulkilie is the accusative of the adjective agreeing with ebanie. See above, line 20. The same king is mentioned in xlv. 16.
26. Agununêda is a local case, used to express an abstract idea, like kurê- $d a$ above. The stem agununê is an adj. in -nis from agumu, a compound of agu 'take,' and $n u$, which is perhaps the root of mus ' king,' and nuna-bi ' I attacked.'
28. For the suffix $a-t s i$ in ebani-atsi-edi-ni, see p. 436. The form of the word is strictly parallel to that of nudadae-di-ni.

## XXXI.

The following inscription was copied by Sir A. H. Layard from a stone in the church of SS. Peter and Paul at Van, and is here published for the first time. We learn from the 9 th line that the historical events described in it took place before the death of Ispuinis, during the joint reign of himself and his son. It is unfortunate it is in so fragmentary a condition. One or two characters are lost at the beginning of each line, and two or three at the end.

2. 浚栄 $\mid$-nu-bi

Y Hu-dha-ru-hu-khi
. . . . . I (overcame) the son of Udharus

 the temples, the kings belonging to the country ni-(da) of the children of Etius,

[^184]4. ar-nu-ya-da ${ }^{1}$ us-ta-a-(bi) the castles I approached (prayed)
5. ( $-\boldsymbol{*}$ ) Khal-di-ni ma²-si-ni gis-su-ri-e Y $\mathrm{Hu}^{3}$-dhato the Khaldises, the powers mighty, in that which ru-(khi-ni-e-di)
belongs to the son of Udharus
6. ( $\mathbf{1}^{4}$ ) Lu-sa-i-ni-e-di $\quad$ Ka-tar-za-ni-(i-e-di)
even in the country of Lusas, in that which belongs to iratarzas
 even in the country of the children of Etius, the kings. To Khal-di-i ${ }^{5}$ ku(-ru-ni) Khaldis the giver,
8. (-y Khal-)di-ni gis-su-ri-i ku-ru-ni us-ta-(a-bi) (and) to the Khaldises the mighty the givers I approached,
9. ( $Y$ Is-)pu-hu-i-ni-ni $Y$ Y Śari-du-ri-khi $Y$ Me-(nu-a-ni) that belong to Ispuinis the son of Sariduris (and) Menuas
10. (Y Is-)pu-hu-i-ni-khi śu-hu-i du-tu Y Hu-dha-(ruthe son of Ispuinis. All (?) the . . . . of the son of khi-ni)
Udharus
11. (1+4) Lu-sa-a $\quad$ Ka-tar-za-a
of the land of Lusas
(and) of Katarzas,
bur-ga-la-da ${ }^{6}$
the temples,
 (the kings),
12. $\binom{\lambda^{4}}{\$^{2}}$ E-ti-hu-khi-ni-da $a^{7}$-si-da
belonging to the country of the children of Etius the palaces na ${ }^{8}$-(khu-bi) I (despoiled.)

| ${ }^{1}$ Layard has $l i$. | ${ }^{2}$ So Layard. | ${ }^{3}$ Layard has kid. |
| :--- | :--- | :--- |
| ${ }^{4}$ Layard has an. | 5 Layard has $n i$. | ${ }^{6}$ Layard has $l i$. |
| ${ }^{7}$ Layard has $z a$. | 8 Layard has ma. |  |


Of the men
$(\mathrm{i} ?)-\mathrm{ni}(?)^{1}-\mathrm{da}(?)^{2}$
here (?)
14.
. . . . a-na-si-i-e se (?) na bat ${ }^{3}$ is-ti-(ni-ni) belonging to them,

15̃. . . cu ${ }^{4}$ 亿-se (a) ${ }^{5}-\mathrm{ti}-(\mathrm{bi}) . .$. (is)-ti-ni-hu ${ }^{6}$-e-di-(a)
. . . . the children; thousands . . . the people of them,

. . . (and) sixteen horses, . . . three thousand five hundred

(I carried off). The . . . . , the inhabitants
19 $\qquad$
20. a nu (?) i ni ni gu (?) na (?) da (?) a

The following fragment of a stone built into the same wall probably contains the continuation of the inscription :-
21. (a)-lu-s i-ni . . . . . . . . . . . tu ${ }^{10}{ }^{10}$ da $^{11}$-(e)
whoever this . . . . . . . . removes,
22. (a)-lu-s khu-(da-)-i-(e)
whoever injures,
23.
ki hu ra(?) a (?)
24. a $Y \lll<$. . su
${ }^{1}$ Layard has ir.
${ }^{2}$ Layard has $l i(?)$.

- Probably an error for some numeral.
${ }^{6}$ Layard has kid. $\quad 7$ Layard has $\langle Y$-.
${ }^{9}$ Seo note on this line. ${ }^{10}$ Hero expressed by -
${ }^{3}$ Sce note on this line.
${ }^{6}$ Layard has Yü.
${ }^{8}$ Layard has kid.
${ }^{11}$ Layard has li.

2j. . . . . e essíni-e i i (?) ri (?) du-(da-e)
. . . . the inscriptions . . . . . . . destroys
26. .. li (?) ha tu ka i-ni se-ir (?) du-da ${ }^{\mathrm{I}}$-(e) this (?) . . . . destroys,
27. (a)-lu-s a-i-ni-e i-ni-da² du-(lut)-da-(e)
whocver with earth here destroys,
2S. $i^{3}-h u-d a^{4}-e \quad$ tu-hu-(da-e)
undoes, removes,
20.
(a)-lu-s hu-da ${ }^{5}$-e-s ti-i-hu ${ }^{6}-d^{7}$-(e) whoever that undoes
30. (i-e-s) za-du-hu-bi pis-i-ni $\quad$ - Khal-(di-s) which I have done, the name may Khaldis . . .
Here the text is broken off.
2. The verb must mean 'I overcame' or something similar, but I have met with no verb elsewhere the stem of which terminates in -mu, unless it be kidanu-bi xxxix. 30 ; or ...anuni v. 31.
The name Udharus is written Uduris by Argistis xxxvii. 22. It is unfortunate that the name of his son is lost.
3. Throughout this inscription the copyist has uniformly represented da by $l i$ (e.g. asida line 12, and the verbs in the second fragment). Burgala-da must be compared with burgana$n i$ (iii. 1, 2) and galazi (xi. 4). The suffix shows that the word denotes a place, or collection of buildings, while lines 11, 12 , make it equally clear that it does not mean 'a palace.' Un the other hand, burgana-ni and galazi are both connected with religious ceremonies, the first being either 'an altar' or 'a shrine,' so that burgala-da 'a place of altars' must be 'temple' or 'temples.' We must notice that the adjective Etin-khini-da takes the local affix, in order to agree with amuya-da. See line 12. The phrase 'children of Etius' is used like the phrase 'children of Eden' in the Old Testament, and perhaps denotes a colony from the land of Etius. In

[^185]xxxvii. 22, Etiu-lihini stands by the side of Etiu-nini, Etiunis being the adjective; No. xxxiv. shows that Etius must have been the district on the north bank of the Araxes, not far from the later city of Armavir. See note on xxxiv. 2.
4. Arnuya-da also occurs in xlv. 34, where Argistis describes his conquest of 'the son of Diaus.' There it is coupled with adae-da. The word is connected with arnis and arniusi-ni-da 'the citadel' of Van; see note on v. 17. For the gentilic infix -ya confer maśinie-ya-ni xxx . 22. Aruu-seems to stand for arniu- (armyu-). In line 12 asida 'palace' takes the place of armu-ya-da.
5. The adjective takes the locative suffix like the substantive with which it agrees (see line 3 ). It is clear from this passage that the adjective when thus provided with the suffix of its substantive may stand either before or after the latter.
6. Katarzas was still alive in the reign of Argistis, by whom he is called Kudhurzas (xxxvii. 18). For the construction ebani-Lusai-nie-di confer xxx. 2.
10. Dutu is an accusative plural of a noun dutus, like lutu 'women.' It is not found elsewhere, and seems to have some such sense as 'spoil.'
12. We must notice that asida occurs here without the explanatory ideographs.
14. This is the same word that occurs in line 1. It is only found in this inscription. One character alone is wanting, the vowel of which must have been $a$.

Bat should clearly be $b i$, and by reading the doubtful se as $n u$ we have mura-bi' I attacked.'
18. Parubi is the word used elsewhere in this connection.
19. We should probably read nulus-tu-bi 'I subjugated' as in xxxviii. 42. The preceding word is in the genitive, and is possibly the name of the son of Udharus.
26. If $i r$ is the right reading, we may compare seri in xix. 17. But the consonantal termination would be inexplicable, and ni should probably be read for $i r$.

It is unfortunate that this cxample of the imprecatory formula should be so mutilated, as it varies considerably from the usual forms of it.

## NXXII. (Schulz XXXIX.)

This inscription has been copied by Schulz and Layard from a stono bnilt into the wall of a vanlt under the chureh of SS. Peter and I'aul (Surb Boghos) at Van. A squeeze of it has also been taken by Captain Clayton. Two or three characters are lost at the beginning of each line, and the end of the inscription is wanting.
> 1. ( $\rightarrow$ Khal-di-)ni-ni us-ma-si-ni Y Me-nu-a-s 'To the Khaldi's the gracious, Menuas
> Y Is-pu-hu-i-ni-(khi-ni-s)
> son of Ispuinis
2. (a-da-e) i-hu tu-su-kha-a-ni it Ma-a-na-a-i-di
says thns: the plunder (?), to the land of the Minni us-ta-it-di on approaching,
3. (it e-ba-)a-ni-a tu-hu-bi a-ma-as-tu-hu-bi the people of the country I carried away; I plundered i-ku-hu-ka-a-ni
the goods

nu-hu-da kha-a-i-tu-hu
. . . . . ., the monuments,
5. ( $\int$ Sa-da-ha-da-)e-khi-ni-ni $i^{3}-n i-n i$
belonging to the son of Sadahadas belonging to the country,
$-=\mid Y$ Su-ri-si-da-ni $\quad=Y Y$ Tar-khi ${ }^{4}$-ga ${ }^{5}$-ma-a-ni
the city of Surisidas, the city of Tarkhigamas
6- (- $=$ YY . . .)-dhu-ra-a-ni Y Sa-da ${ }^{6}$-ha-da-e-khii-ni-da-a-ni the city of . . dhuras, the seat of the son of Sadahadas ap-ti-ni
which was called,
${ }^{1}$ So squeeze and Layard. ${ }^{2}$ Written $\left.{ }^{2}\right\rangle\left\rangle\right.$. ${ }^{3}$ Schulz has tar.

- So squeze and Layard; Schulz has kab instead of tar-khi.
${ }^{5}$ So squeeze and Layard. Schulz has hu. ${ }^{6}$ Written $\rangle\rangle$.

7．（ーニンY ．．．）da－e－i $\left\langle Y\right.$ kab ${ }^{1}$－bi－e of the city of ．．．das the stones，

At Kha－ti－na－ the seat of the
as－ta－a－ni ap－ti－ni
Hittites which was called，
8．．．．．．．i－hu－e Al Al－zi－i－ni－ni
ILMCXIII
．．．．．．．．．．belonging to the country of Alzis 2113
$\rightarrow \gamma-$ ta－ar－su－a－ni
soldiers
9．．．．．．．．．e a－da－kid za－as－gu－hu－bi a－da－kid $\quad\rangle<\rangle \lll$ partly I killed，partly alive a－gu－hu－bi I took．

10．．．．．．．．e a－da－ma－a－nu a－ru－hu－bi
－Sy－khu－ra－
．．．．．．．．some and each I brought those belonging di－na－hu－e $Y \lll<$ to the army．
2．Adae iu occurs elsewhere（xli．13，17，li．iii．3），where it can only mean＇he says thus，＇an exact translation of the usual Assyrian phrase ikabbi umma＇he says thus．＇The root of $i n$ is $i$ ，the demonstrative stem which we find in $i-n i$ ；the final $-u$ marks the adverb as in baddimanu，adamanu，and would seem to have originally been the accusative plural of a noun in－us．

We find thani（sur－khani）again in xxxix．49，and in com－ position with sisu（sisu－khami）in xliii．43．We might decom－ pose both sisu and tusu，into $s i+s u$ and $t u+s u$ ，si（in siubi） and tu having much the same meaning．We have su in kharlhar－su－bi＇I dug up．＇Perhaps the word signifies ＇plunder．＇It is replaced by sisti－ni（？sisu－ti－uda）in xlix． 7.

The position of the locative ustadi here is very unusual．But Manai－di precedes as being an independent locative governed by the defining word ustadi，which accordingly follows．The Mana are the Mannai of the Assyrian inseriptions between the kingdom of Van and Lake Urumiyeh．They are the Minni

[^186]of the Old Testament, the Minyans of Nikolas of Damascus. See p. 389.
3. The affix $-a$ in ebani-a clearly denotes 'people of'- 'the country folk.' The meaning of ikukani secms to be determined by li. iii. 5 , where it is coupled with tukhi-mi 'prisoners,' and xlix. 22, where it follows a list of booty that had been carried off. The stem is ikin (comp. inn-s), with the suffix ka (see note on xxi. 3), so that it means literally 'a series of goods.'
4. Ihuradi-ni-da is literally 'the place belonging to the army.' Here, as in asida (xxx. 27), the ideograph of plurality shows that -da expresses the plural.

Kidddanu-la occurs arain under the form of Fiddanu-bi in xxxix. 30. I have no idea of its meaning. For khaitu'u see xvi. 4.
5. Sadahadaekhini-ni agrees with the substantives which follow, and consequently not only dnes not lose the $-m i$ of the suffix -khinis, but attaches to itself the accusatival -ni. The final suffix of ebeni-ni, however, is the adjectival -inis. Sadahadas seems to have been a Hittite king, Menuas having made expeditions the same year against the Minni on the east and the Hittites on the west. The name probably stands for Sandahadas, Sanda(n) having been a Hittite deity.
6. For ap-tini see xi.A. 3. The character seems intended for 〈 $k a b$, and the determinative would appear to indicate that the word means 'stones.' But compare liarbi xxxvii. 26.
7. -da-e-i has the genitive termination.-Khatinas-ta-ni stands for Khatinas-da-ni, $t$ becoming $d$ after $s$ as in Biainaste for Biainas-di. Khatinas is a territorial adjective in -nas, parallel to Biainas. We find the simple Krate in xxxviii. 5. This exactly corresponds with the Assyrian Khatte or Khattai 'Hittites,' the double dental of the Assyrian form being represented in Vannic by a single one, as in Mana by the side of the Assyrian Mannai. The geographical position assigned to the Khate suits that of the Assyrian Khattai who lived to the south of the country of Alzu on the Upper Euphrates.
8. Alzu is mentioned along with Purukuzzu by TiglathPileser I. as adjoining the Hittites who sent against him a
force composed of Kaskian (Kolkhian) and Urumian subjectallies. Alzinini is the accusative of an adjective in -inis. Tarsua must, from the position in which it frequently occurs, signify 'soldiers,' as Dr. Mordtmann perceived. It is a collective in -a like khuradi-a.
9. For the phrase adakid zasgubi adakid sekheri agubi, see p. 449. The pronunciation of the ideographs $r \mid \lll \lll$ is given by xxxvii. 42,47 , etc.
10. Adamunu is an adverb like baddi-manu (xxx. 17), and must be decomposed into ada and manu 'some + each.' It means each of the 'some' who were taken alive and are further defined as belonging to the army. They were probably carried to Van.

## XXXIII.

This inscription was copied by Sir A. H. Layard at Palu on the northern bank of the Upper Euphrates, about midway between Malatiyeh and Van, and to the east of the country of Alzu mentioned in the last inscription. It is engraved on the face of a cliff overlooking the river, on the summit of which are the ruins of an ancient fortress. It would appear from the inscription that Puterias was the old name of the city now represented by Palu. Ritter would identify it with the fortress Khitarizum of Procopius, which perhaps contains the name of the Hittites. The text is published in Layard's $I_{n}$ scriptions in the Cuneiform Character, pl. 74.

$$
\begin{array}{lll}
\text { 1. - Y Khal-di-ni } & \text { us-ta-a-bi ma }{ }^{1} \text {-si-ni-i-e } \\
\text { To the Khaldises I prayed, to the powers }
\end{array}
$$

2. (gis-su)-ri-e ka-ru-ni-e $\quad-=y_{2} \mathrm{Pu}^{3}$-te ${ }^{4}$-ri ${ }^{5}-\mathrm{a}-\mathrm{ni}$ mighty, who have given the city of Puterias.
3. (ka-) a-ru-ni $\quad-=\|$ Khu $^{6}-7, a-n a^{7}$-a-ni who have given belonging to the city of Khuzanas

$$
\therefore-n i-e
$$

the countries

[^187]4. ( $\mathbf{t}^{4}$ ) Gu-pa-ni ${ }^{1}$-yy Khal-di-i kn-ru-ni
(and) the land of Gupas; to Khaldis the giver,
5. (-y Khal-di)-ni gis-su-ri-i ku-ru-ni
to the Khaldises the mighty, the givers,
6. ( $\rightarrow$ Y Khal-di-ni-)ni us-ma-(si)-ni us-ta-a-bi to the children of Khaldis the gracious I prayed,
7. (Y Me-nu-a-ni) - Y Is-pu-hu-i-ni-e-khi
belonging to Menuas the son of Ispuinis
8. (kha-luu-ui)
$-=Y Y^{2} \mathrm{Pu}^{3}$-te-ri-a-ni
who has conquered belonging to the city of Puterias
$\uparrow$ e-ba-ni-e
the districts
9. $a-d a^{4}$
and
( $=-y$ Y) Khu-zil-a-na-ni
belonging to the city of Khuzanas
it e-ba-ni-e
the districts;
10. kha-(hu-ni) t Gu-hu-pa-a-ni khu-dhu-ni
who has conquered the land of Gupas ; who has departed
11. $\mathrm{pa}^{5}-\mathrm{a}-\mathrm{ri}-\mathrm{e}$ it Kha-a-te-i-na-a
out of the land of the Hittites;
12. (i-)ni ${ }^{6}-\mathrm{i}$ HY pu-lu-si ku-i ${ }^{\top}$-gu-ni
this inscribed stone who has written
13. (a-)da-a - Y Khal-di-i ya-ra-ni
and to Khaldis who has consecrated ;

1 So in line 10.
${ }^{2}$ Layard has $\rightarrow$ (?).
${ }^{3}$ Lay̧ard has bad (?).
Layard has the impossible EYY $-Y Y Y$. The last character is plainly da.
${ }^{5}$ Layard has $=Y Y Y(?) . \quad 6$ Layard has $Y Y$. 7 Layard has a (?).
14. (? kha-hu-)ni $\quad-=Y$ Pu-te-ri-a
who has conquered (?) of the city of Puterias
a-śu-ni
the neighbourhood;
15. Y Su-da(?)-ni(?)-za-a-hu-a-da
of Śudani-zavadas,
16. $\left\langle\ll=Y Y M e-l i^{1}\right.$-dha-i-e ${ }^{2}$ al-khe the king of Malatiyeh of the inhabitants, ha-al-du-hu-ni who has $\left\{\begin{array}{l}\text { changed } \\ \text { removed }\end{array}\right\}$
17. (? pi-e-)ni ${ }^{3} \quad \rightarrow$ Khal-di-ni-ni
(the name?). To the children of Khaldis
al-śu-u-i-si-(ni)
the multitudinous
18. Me-nu ${ }^{4}-\mathrm{a}-\mathrm{ni}$ (1) Is-pu-hu-i-ni-e-khe
belonging to Menuas the son of Ispuinis,
19. $\langle\langle=Y Y Y(\forall\langle\langle )$ al-śu-hu-i-ni-e
the powerful king, the king of multitudes,
20. $\left\langle<\leqslant\right.$ Bi-i-a-i-na ${ }^{5}$-a-hu-e
the king Biainian,
21. a-lu-śi-e $-=Y Y$ Dhu-us-pa-a-e $-=Y Y$ inhabiting the city of Dhuspas.
 Menuas says: whoever of this tablet
23. pi-tu-da-i-e a-lu-s tu-hu-da-i-e
removes the memory, whoever removes,
24. a-lu-s hu-da-e i-ni-da du-da
whoever these (things) here destroys,
${ }^{1}$ Layard has da.
4 Layard has 4 .
${ }^{2}$ Layard has a.
${ }^{6}$ Layard has ma.
${ }^{3}$ Layard has $i(?)$.
25. tu-ri-ni-ni $\rightarrow$ Khal-di-s $-y^{Y}$
for what belongs to the rock (?) may Klialdis the

$$
\Delta+H-s \quad-y \text { - }
$$

Air-god (and) the Sun-god,
 the gods, him publicly the name
27. me-i ar-klii-hu-ru-da-a-ni me-i i-na-i-ni
of him, the family of him, the city
28. me-i na-a-ra-a a-hu-i-e hu-lu-hu-da-e
of lim to fire (and) water consign.
2 and 3. Puteria-mi and Khuzana-ni are adjectives in -mis agreeing with ebanie. If we read Pularias ( $-Y$ for it would be possible to compare the name with that of Palu. It is clear that we ouglit to read Kluzanas and not Khuzamas. Khuzanas is the modern Khozan, the name of the district in which Palu is situated.
8. The inscription has been restored by a comparison with No. xxxvi. 'This teaches us that we have to supply khauni in this place. Instead of independent verbs we find participles or adjectives in -nis agreeing with Menua-ni, which itself agrees with Khaldini. Buteria or Puteria may be the same as Paiteri, a district of Nahri mentioned by Tiglath-Pileser I.
13. Tarani occurs elsewhere only in lvi. i. 5. Here its sense is fixed by the context. The construction is the same as that of khuu-ni and kuigu-ni
15. We should perhaps read kila for $\approx a$, and identify $K h a-$ radas with the Vannic Kharada, the name signifying 'the God Sudani (?) is a conqueror.' With Sudani compare Sadi-anteru, the name of a king of Komagênê in the age of Tiglath-Pileser I., and the Lydian Sady-attês.
16. The name of Malatiyeh (Melitênê) is written Milidia, Meliddu, and Melidi in the Assyrian inscriptions. For alkhi see xx. 8. In 1. 2 we again find the phrase Meliche alkhi. It would seem that, as in the acc. sing., the suffix -khinis dropped
the final nasal in the plural when agreeing with a preceding substantive.
17. For alśuisi see v. 12.

## XXXIV.

The following inscription exists in two places, being engraved both on a basaltic rock called Yazlitash, near the village of Karakoin, on the right bank of the Araxes, opposite the old city of Armavir (the Armauria of Ptoleny), and also on a rock at Tsolagerd, ${ }^{1}$ near Edshmiadzin (called Vagharsabad, from Valarses). The first text is a good deal injured, the beginnings of the lines being destroyed, and the only copy of it we possess made by Dr. J. Kästner, and published by Kästner and Berger in the "Bulletin de l'Académie impériale des Sciences de S. Pétersbourg," vii. pp. 275 sq., is exceedingly bad. The copy of the other text, however, made by the discoverer, the Vartabed Mesrob Sempadian (or Sembatiants), is even worse. This is the more unfortunate, in that the original text of it is complete. The copy has been published in the Armenian journal "Ararat" for Sept. 1870, and again by Dr. Mordtmann in the Z.D.M.G. xxxi. 2, 3 (1877). The spot where the Karakoin text has been found is at the junction of the Kasagh with the Araxes. This text I call text II., the Tsolagerd text being text I. Even with the two together it is difficult to make anything out of the so-called "copies." Dr. Mordtmam, who first discovered their identity, has successfully restored many of the words.


[^188]3. $\left\{\begin{array}{c}\text { I. }-=Y Y \operatorname{Ur}(?)-?-\text { kha(?)-ni } \\ \text { II. . . . . . . . . . . . ni }\end{array}\right.$
the eity of (? Lununis)
Y Me-nu-a-ka-i
Y Me-nu-a-ka-i
to the raee of Menuas;
4. $\left\{\begin{array}{l}\text { I. - K Khal-di ku-ru-ni }-y \text { Khal-di-ni gis-su-ri-i }\end{array}\right.$ II. . . . . . . . . . . . . . . . ( - y Khal-)di-ni gis-su-ri-i
to Khahdis the giver, to the Khaldises the mighty
5. $\left\{\begin{array}{c}\text { I. } \\ \text { II. }\end{array}\right.$
I. (ku-)ru-ni $->$ Khal-di-ni-ni
us-ma-si-ni
II. . . . . . . ( $->$ Y Khal-di-)ni-ni
us-ma-si-ni
the givers, to the ehildren of Khaldis the graeions us-ta-bi us-ta-bi I prayed,
6. $\left\{\begin{array}{cc}\text { I. (Y Me-nu-)a-ni } & \text { Ys-pu-hu-i-ni-e-khi } \\ \text { II. . . . . . . . . ( } & \text { (Ys-pu-hu-i-ni-e-khi }\end{array}\right.$
belonging to Menuas the son of Ispuinis.
7. $\left\{\begin{array}{cc}\text { I. hu-lu-us-ta-bi } & \text { Khal-di-ni Y Me-nu-a-s } \\ \text { II. (hu-lu-us)-ta-(bi) } & \text { - K Khal-di-ni Y Me-nu-a-s }\end{array}\right.$ I approached with offerings the Khaldises. Menuas
I. a-da-e tu-bi

Y E-ri-ya-khi
(Y) E-ri-a-khi
of the son of Erias
it $-n i$
the country (folk),
 the city of Rabikhus (?), the city of Zuakhuis (?)
${ }^{1}$ My restoration of these two characters is uncertain.
${ }_{2}$ Text I. has $Y Y-Y Y$, text II. YY< YY.
10. $\left\{\begin{array}{l}\text { I. a? ? bi? ni bi i ? ? ? la-la-ni } \\ \text { II. . . . . . . bi i ? ? ? la-la-ni }\end{array}\right.$ I . . . . . . . . . . . . . . . . . .
11. $\left\{\begin{array}{c}\text { I. e e } 1 \text {-si-ni ? ? ? ? pui Y Me-nu-hu-a } \\ \text { II. . . . . . . . . . . se } Y \text { Me-(nu)-hu-a }\end{array}\right.$ inscriptions . . . . . . of Menuas
12. $\left\{\begin{array}{l}\text { I. Y Is-pu-hu-i-ni-khi-ni-e kha-hu-bi } \\ \text { II. ( }(\text { Is-pu-hu-i)-ni-khi-(ni)-e kha-hu-bi }\end{array}\right.$ the son of Ispuinis. I conquered
13. $\{$ I. $=$-YY Lu-nu-hu-ni-ni ha-al-du-bi
II. ( - - $Y$ Lu-nu-hu-ni-ni ha-)al-tu-bi the city of Lununis. I changed
14. $\left\{\begin{array}{cc}\text { I. }-=Y Y \text { Lu-nu-hu-ni-ni } & \text { me-e-si-ni pi-i } \\ \text { II. (- }-=Y Y \text { Lu-nu-)hu-ni-ni } & \text { me-e-si-ni pi-i }\end{array}\right.$
belonging to the city of Lununis its name,

as 'of-Menuas-the-place of the chief citizens.'
16. $\left\{\begin{array}{c}\text { I. (a)-lu-s tu-da-e } \quad \text { a-lu-s pi-tu-(da)-e }\end{array}\right.$
III. (a-lu-s tu-)da-e a-lu-s pi-tu-(da)-e

Whoever removes, whoever the name removes,
 whoever with a stone here destroys,
18. $\left\{\begin{array}{ccc}\text { I. } & \text { a-lu-s } & \text { hu-da-s } \\ \text { II. } & \text { ti-hu-lu-(s) } & \text { hu-(da)-s } \\ \text { Ii-hu-da-e }\end{array}\right.$
whoever that undoes

[^189]19. $\left\{\begin{array}{ccc}\text { I. } i-e-s & =-Y Y \text { Lu-nu-hu-ni-ni } & \text { kha-hu-bi } \\ \text { II. (i-e-s) } & =Y Y \text { Lu-(nu)-hu-ni-ni } & \text { kha-hu-bi }\end{array}\right.$
in that the city of Lununis I have conquered,
20. $\begin{cases}\text { I. } & \text { tu-ri-(ni)-ni } \\ \text { II. (tu-ri-ni-ni }\end{cases}$
for what belongs to the stone (?) may Khaldis,


the gods him,
-午 Khal-di-s
-y Khal-)di-s

Teisbas

-     * \& - -
and the Sun-god,
- $y$ \& A
-y हो -s
of the city Eri-dias (v. 16), as well as of Eri-menas. Eris may have been the Sun-god, representing the Ara of Moses Khorenensis and the Er ( ${ }{ }^{*} H \rho$ ) of Plato (Rep. 614 sq.). Nordtmann compares the name of the Armenian (or Partliian) Hiero in Tacitus (Amn. vi. 42, 43).

3. The analogy of other inscriptions would lead us to infer that we ought to read Lununi-ni as in lines 13 and 14. The first character of the "copy" can just as well represent $l u$ as $u r$, the second seems intended for $n u$, and the third is more probably $n i$ than $k h a$. In any case, Lununis was the city afterwards represented by Armavir.

We find lakuni elsewhere as well as lakuada. Compare together :-
Khaldini ustabi maśinie gissurie karuni \$ Manani ebanie Khaldini ustabi maśinie gissurie karuni . . \& Manani $\uparrow$ laḳuni Saridurikai xlix. 2.
Pustuni lakuada Argistikai xxxix. 48.
Lakuada is an abstract in -da, with the suffix $a$, like arnu-y $a-d a$ (xxxi. 4), and must therefore be in apposition to the preceding accusatives. Lakuni must be equally in apposition with the preceding accusatives and so be the accusative of a substantive lakus, unless it is co-ordinate with karuni. Only two meanings are possible for the words. They must be cither "as a present," or "as a spoil." The first meaning, as being the more general, is the preferable one. Since the formula, though repeatedly occurring in the inscriptions of Argistis, is not elsewhere found in those of Mcuuas, it may be inferred that the war described in this inscription belonged to the last years of the life of the latter king.
8. Either tebi or th $-n i$ is incorrectly copied in this line. With tubi 'I carried off' we must have it -ni-a 'the people of the country' (sce xli. 6, etc.).
12. We may notice the genitivo Ispuinikhinic. Sce p. 488. 15. $-=Y Y-e-a-t s i-d a-n i$ is a very interesting form. $N i$ is the accusatival suffix, da the local affix, atsi (i.c. a-tsi) the suffix we mect with in urpu-atsi (vii. 1), ebani-atsic-di-ni (xxx. 28),
zyy-asi $Y \lll-t s i e$, etc., and -e the phonetic complement of the word (inaine) which denotes 'citics.' The meaning must be 'place of the rulers of the citizcns' or 'all the citizens.' We may therefore translate ' capital.'
17. Elsewhere $\langle Y$ 'stonc' is replaced by ainci 'earth;' eg. xxxyA. Rev. 5.
19. For the construction see p. 440.

## XXXV.

This inscription was copied by de Saulcy at Hassan Kala'a ('Theodosiopolis) near Erzerûm, and is published in his Voyage autour de la Mer Morte, pl. ii. 1. Unless the stone has been brought from elsewhere, it would seem that Menuas not only extended his sway as far as Erzerûm, but also restored a palace in the neighbourhood.

1.     - $\boldsymbol{>}$ Khal-di-1ii us-ma-si-ni

To the Khaldises the gracious
2. $Y$ Me-nu-a-s $Y$ Is-pu-u-ni-khi-ni-i-(s) Menuas son of Ispuinis
3. i-ni $Z Y Y Y Y$ ZY- si-di-is-tu-ni
this palace has restored
4. ba-a-du-hu-śi-e
which was decryed.
5. - Y Khal-di-ni-ni al-śu-si-ni

To the sons of Khaldis, the multitudinous,
6. $\boldsymbol{Y}$ Me-nu-a-ni $\quad$ Is-pu-u-i-ni-khi belonging to Menuas son of Ispuinis,
7. $\langle\langle=Y Y Y \nmid \quad$ al-śu-i-ni
the powerful king, the king of multitudes,
8. it Bi-a-i-na-a-hu-e
the Biainian,
9. a-lu-śi $\quad=Y Y$ Dhu-us-pa $-=Y Y$ inhabiting the city of Dhuspas.

## XXXV.A.

I must add here a fragmentary inscription found by Capt. Clayton on the obverse and reverse of a stone in the churchyard of the village of Irmerd, in the plain of Mush. It is chiefly of interest as showing that Menuas carried his arms in this direction and succeeded in reducing the country to the south-west of Lake Van. Capt. Clayton sent a squeeze of the inscription to the British Museum in 1881. Not only are the beginning and end of the text lost, but all the lines are imperfect.

## Obverse.


2. . . . . . a-ma-as-tu-(hu-bi)
. . . . . I plundered
3. . . . . . EYYYY EYY Y $\lll<-$ si-a . . . .
...... . the people of the palaces
4.
. . . . . . $-=Y Y$ Ku-ul-me-e . . . .
. . . . . . the city of Kuhne . . .
5. . . . . $(?-=Y) Y E(?)-k a-a r-s u$
. . . . . the city of Ekarsu (?)
6. ..... EMYYYEY-ni-a du-hu-(bi)
. . . . . the people of the palace I destroyed
7. . . . . . bu-ra-a-as tu-hu-(bi)
. . . . . the court I carried away
8. . . . . (ra)-a-ni-tsi du-bi e-śi
. . . . the chief of the people I destroyed. The laws . . .
9. . . . . ( ${ }^{4}$ e e-)ba-ni . . . . .
. . . . . the country
10. ni

## Reverse.

1. . . ( $($ Me-)nu-a-s a-da-(e)
... Menuas says :
2. (a-lu-)s ini $==Y Y Y(A Y Y)$
whoever this tablet
3. (du-hur-)da-i-e a-lu-(s) destroys; whoever
4. (pi-)i-tu-hu-da-i-(e)
removes the memory;
5. (a-)lu-s a-i-ni-e whoever with earth
6. (i)-ni-da du-da-i-(e) here destroys
7. (a-)lu-s hu-da-e-(s)
whoever that
8. (ti-) i-hu-da-i-(e) undoes
9. (i-e-)s za-a-du-hu-bi
which I have done;
10. (tu)-ri-i-ni-(ni)
for what belongs to the stone

## 11. (-y Khal-di-)s $-y$ Y $(-s)$ may Khaldis, the Air-god . . . . . .

Obr. line 7. Buras is shown by the determinative in xlv. 18 to denote a class of persons; otherwise it has the form of an adverb prefixed to the verb like amas-tubi. For line 8 , see xlv. 40 .

In the same churchyard Capt. Clayton found two other fragments of which he took squeezes, but they are in too
broken a condition to be intelligible. One of them contains the following characters :-

1. . . . . . khu (?) . . . . hu . . . .
2. . . . . hu . . . . . . . e . .
3. . . . la a di (?) . . . pu i .
4. . . . tar pa ra ka a . .
5. . . . e ri ma a . . . . .
6. . . . a hu . . . . . . .

## Inscriptions of Argistis.

Argistis, the son and successor of Menuas, was the builder of the citadel of Van. But he was a general rather than a builder, and his inscriptions chiefly record the wars he carried on and the extension he gave to the limits of his kingdom. The weakness of Assyria gave him the opportunity of reducing the Mannai or Minni and their ncighbours to subjection, and he was victorious in his struggles with the Assyrian king, Assur-dan, himself. Under him the Vannic kingdom reached its highest point of power. His name was borne by a later king, the contemporary of Sargon and Sennacherib. Mordtmann finds a reminiscence of his name in that of the district of Argastovit in Mog or Mok, the fifth province of Armenia. It is derived from a stem argi- by the help of the locative suffix -di (which becomes - $t i$ after a sibilant) and the suffix $s$ for si. It is thus strictly parallel to Biainaste. Possibly, however, it is a compound of the root $a r$ ' 'to bring,' and gies 'an image.'

## XXXVI.

The following inscription was copied by the Vartabed Mesrob Sempadian or Sembatiants in a valley near Elarh, the last village bcfore reaching Erivan from the north, and was published in the Armenian Journal of Moscow, Le Nouvelliste russe, for 1863 (No. 45). It is also given by Mordtmann, and was subsequently copied by Robert. It fixes the locality of Uluanis and Daras.

[^190]1．－K＇hal－di－ni us－ta－bi ma－si－ni gis－su－ri－e To the Khaldises I prayed，to the powers mighty，
2．ka－ru－ni
A E－ti－hu－ni－ni
who liave given the Etiunians；
－＊Khal－di－i
to Khaldis

3．ku－ru－ni $\rightarrow$ Khal－di－ni gis－su－ri－e ku－ru－ni the giver，to the Khaldises the mighty，the givers；
4．－x Khal－di－ni－ni us－ma－si－ni us－ta－bi to the children of Khaldis， the gracious，I prayed，

5．Y Ar－gi－is－ti－ni
who belong to Argistis
Y Me－nu－a－khi－e
the son of Menuas，
6．klıa－hu－ni
who has conquered t Hu －lu－a－ni－e－i
of Uluanis

It e－ba－ni the land，

7．$-=Y$ Y Da－a－ra－ni it－ni－e $\rightarrow$ Y Khal－di－ni－ni
（and）of the city of Daras the lands．To the children of Khaldis
8．al－śu－si－ni
Y Ar－gi－is－ti－ni
Y Me－nu－a－khi
the multitudinous belonging to Argistis the son of Menuas，
9．$\langle\langle=Y Y Y \geqslant$
＜＜al－śu－ni
〈〈
the strong king，the king of multitudes，the king of the a－i－na－e country of Biainas，
10．a－lu－śi $\quad=$－YY Dhu－us－pa－a $䒑=Y Y$ inhabiting the city of Dhuspas．
2．For the country of Etius see note on xxxiv．2．Etiu－ $n i-n i$ is analogous to $A l z i-n i-n i$ ，xxxii． 8.

7．Darani may be either the accusative of an adjective in －nis agreeing with ebanie，or the genitive of a substantive Daranis．

## XXXVII．（Schulz II．）

We come now to the long historical inscriptions engraved by Argistis on the face of the cliff of the castle of Tan，which later Armenian legend assigued to Semiramis．They form
the prototype of the similar historical inscription carved by Darius Hystaspis on the rock of Behistun, and may have suggested the latter to the Persian king. At all events the trilingual inscription of Xerxes on the south side of the cliff of Van expressly states that it was Darius who had intended to have it made (" on this mountain he gave command to make a tablet and image, but did not write in it "). The inscriptions begin to the right of a small chamber cut in the western face of the rock at the commencement of a flight of twenty steps. Above the steps are the three inscriptions xxxvii. xxxviii. and xxxix., divided from one another by vertical lines. The translation will show that they really form a single text. Turning a corner at the end of the steps we reach the entry into the five sepulchral chambers of the "Khorkhor" (Khorkhor mugaralari), a name which is without etymology in either Armenian or Turkish, and probably goes back to the Vannic kharkhar 'to excavate,' kharkhar-nis 'excavated,' xxi. 4. To the left of the entry are inscriptions xl. and xli., while above the entry is the mutilated inscription xlii. The inscriptions have been copied first by Schulz, and then by Sir A. H. Layard. Robert's copy is so bad as to be quite useless.

1. A-da ${ }^{1}-e \quad$ i-ni $\quad . . . .$. . ni-e $\quad a-z i-i-b i-e$

One says: this (excavation for the dead?)
2. i-na-a-i-ni ... ${ }^{2}$ la ra ....... ( 1 ) Ar-gis-ti-s
belonging to the city (has been completed?) Argistis

$$
a-d a-e
$$

says :
3. khu-ti-(a-di) $\rightarrow$ Khal-di-(di $-Y Y$ )-di
among the king's people (?) Khaldis, the lord,

$$
\Rightarrow \forall-\Delta \nmid-\mathrm{di}-y+y-\mathrm{di}
$$

the Air-god (and) the Sun-god,
4. a-lu-hu-śi-ni-(ni)

$$
\text { al-śu-i-si-ni } \quad \text { a-da-i-a-ba-di }
$$

of the (gods) of the inhabitants multitudinous among the assembly (?)

[^191]5. i-ku-ka-a-ni mu si-(su)-kha-ni Fry-khu-ra-digroods his, the harness (?) (and) the place of the
ni-da-hu-e-da camp
6. us-ta-di on approaching

The son of Diaves the king I overtlirew,
7. kha-hu-bi \& Se-ri-i-a-zi $-Y Y \mid \lll<K$ I conquered. Of the land of Seriazis the cities I burned.
=YYYYEY- Y<<<< khar-khar-su-bi ku-dha-a-di
The palaces I dug up. On departing
8. pa-ri $\left(-\frac{7}{-}\right)$ YY Pu-ti-e $\widehat{2}$ ma-at-khi \& Bi-a-ni out of the city of Putis the girls of the lands of Bias (and)
th Khu-sa-ni ha-al-du-bi an-da-ni Tar²-i-hu-ni. Khusas I removed (and) the bors (?) of the land of Tarius.
9. us-ta-a-di ti Za-ba-a-kha-a-e-hu-e-e-di-ya kha-a-hu-bi On approaching the people of Zabakhas I conquered
\& Za-ba-a-kha-a-e-si-i-da
the district of the Zabakhians.
10. ku-dha-a-di pa-a-ri-e $=$-YY Hu-zi-na-bi-tar-na-a pa-ri On departing out of the city of Uzinabitarnas, out of
\# ŚSi-ri-mu-tar-a
AA Ba-ba-ni
the land of Sirimutaras (and) the land of Babanis
11. an-da-ni $-=Y Y \mathrm{Ma}^{3}$-ka-al-tu-ni
the boys (?) belonging to the city of Makaltus
\#t I-ga-ni-ni ha-al-du-bi si-a-di
of the land of Igas I removed. On despoiling
$Y$ E-ri-a-khi-ni-ni-e ti-ni-e-di
belonging to the son of Erias the lands,
${ }^{1}$ Robert inserts the numeral < before 'palaces.' ${ }^{2}$ So Layard and Robert.
${ }^{3}$ So Layard and Robert.
12. us-ta-di $\$ A$ A-bu-ni-i-e-di kha-h u-bi $-=y$ on approaching the land of Abus I conquered the city of Hu -ri-e-i-hu-ni $-=\mathrm{y} Y\left\langle\left\langle\right.\right.$ nu-sí ${ }^{1}$ hu-i dha-ru-khi-ni-i Urieyus the royal city and the inhabitants.
 19,255 children, 10,140 soldiers
se-e-khi-e-ri-e XXMIIIMCC ${ }^{1}<^{3}$ ² alive, 23,280 woman-folk,
14. * $V$ a-ti-bi IIMDCLXXV ${ }^{4}$ 企 twice 5 thousand 2,675 soldiers mu a-da-ki za-as-gu-bi a-da-ki se-khie-ri a-gu-bi its partly I slew, partly alive I took.

1,104 horses I carried off, (and) 35,016
$=Y$ pa-khi-ni X a-ti-bi ... MDCCCXXIX
oxen, (and) 10 thousand . . . 1829 sheep.
16. Ar-gis-ti-s $^{\text {a-da-e }}$ - Khal-di-a ${ }^{6}$ is-ti-ni-e

Argistis says: For the people of Khaldis these i-na-ui-da ar-ni-hu-si-ni-da $\boldsymbol{Y}$ - za -du-bi the city (and) the citadel in one year I built.
17. - Khal-di-i-ni us-ta-bi ma ${ }^{7}$-śsi-ni-e gis-su-ri-e To the Khaldises I prayed, the powers mighty ka-ru-ni $\quad Y$ A-bi-da-i-a-ni-e-khi ${ }^{4}$ e-ba-ni-e who have given of the son of Abidayanis the country,
18. ${ }^{4}$ A-ni-is s $^{8}$-ti $(\text { ? })^{9}$-ir ${ }^{10}$-lu ${ }^{11}$-e K Ku-dhur-za-ni-i-ni
belonging to the land of Anistir (?) of Kudhurzas's relative

[^192]Y Ul－tu－za－i－ni ：＾－ni－o la－ku－a－da \Ar－gis－ti－ka－i Ultuzais the country as a present to the race of Argistis． 19．－- Khal－di－i ku－ru－ni - Khaldi－ni gis－su－ri－i To Khaldis the giver，to the Khaldises，the mighty，
ku－ru－ni $\rightarrow$（ Khal－di－i－ni－ni al－śu－hu－i－si－ni
the givers，to the children of Khaldis the multitudinous
20．us－ta－bi $\quad$ Ar－gi－is－ti－i－ni $\quad$ Me－nn－hu－a－khi $-\frac{Y}{Y}$ I prayed，belonging to Argistis son of Menuas；to the Khal－di－i－nii hu－lu－（us－ta－）a－i－bi
Khaldises I approached with offerings．
21．｜Ar－gis－ti－s a－da－e kha－hu－bi $\ddagger$ E－（ti）－hu－ni－ni
Argistis says：I conquered the districts belonging to Etius．
ku－dha－a－di pa－ri－e ささ $=$ 渹
On departing out of the country of Etius（？），
22．pa－ri YHu－du－ri te E－ti－hu－khi ni ha－sc
out of of Uduris the land of the son of Etius mon（and）

> L lu-tu pa-ru-bi |Ar-gi-(is-ti-s a-)da-(e)
women I carried off．Argistis says：
23．khu－ti－a－di - Khal－di－e－di－II－（di）$\rightarrow$－$-\boldsymbol{H}$－di among the king＇s people（？）Khaldis，the lord，the Air－god（and）

$$
\Rightarrow \text { - } \boldsymbol{f} \text { - di } a^{1} \text {-lu-śi-ni-ni } \quad \text { al-(śu-i-si-ni) }
$$

the Sun－god，of the（gods）of the inhabitants multitudinous
among the assembly（？）the goods
us-ta-a-di ta Hu-me (?)-ku³ . . . . [di]

On approaching the country of ．．．．．．

$$
\text { 25. kha-a-luu-bi } \uparrow \text { Ur-ya }{ }^{4} \text {-ni } \text { N Dha-ir-tsu }^{5}-\mathrm{bi}^{6}
$$

I conquered the land of Uryas（and）the land of Dhairtsu（bi）；
kha－a－hu－bi
I conquered
Mu－ru－ba²．．．．．
Muruba ．．．．
${ }^{1}$ Schulz has e．${ }^{2}$ Layard has e．${ }^{3}$ So Layard．Schulz has lu for me（？）－Fu．
＊So Schulz and Layard．Robert has me－i－a．
${ }^{5}$ Layard has $[\hat{\mathbf{Y}}]$ ． So all the copyists；but $n i$ is required．$\quad$ i So Layard；Schulz has zu．
26. $\mathrm{ma}^{1}$-ri-ni $\left\{\begin{array}{l}\text { gar } \\ \text { ḳar }\end{array}\right\}$-bi $\quad$ a-gu-nu-ni-ma $\quad$ gu-nu-sa-a the . . . . the monuments (?) the plunder-his for a spoil kha-hu-bi ha-se (lu-tu pa-ru-bi) I took. Men (and) women I carried off.
27. kha-a-hu-bi $-=$-YY Hu-ba-a-ru-gi-il-du-(ni $-=Y Y)\langle<$ I conquered the city of Ubarugildus the royal

$$
\begin{aligned}
& \text { nu-(śi) } \\
& \text { city . . }
\end{aligned}
$$

28. (ku-dha-)a-di pa-ri \$ ${ }^{\text {A }}\left\{\begin{array}{l}\mathrm{Ku}- \\ \mathrm{Lu}-\end{array}\right\} \ldots$ ru-pi-ra
On departing out of the city of $\left\{\begin{array}{l}\mathrm{Ku}- \\ \mathrm{Lu}-\end{array}\right\}$. . rupiras, pa-ri $\ddagger$ Tar-ra...... out of the country of Tarra
29. (us-ta-)di $\quad=-Y Y$ Id .. $\mathrm{ku}^{2} \ldots$ a-hu-ni-e-di On approaching the city of Id...ku...aus, the a
stone
30. ha-se $\quad$ hu-e-di-a-(ni)
the men (and) woman-folk
31. kha-a-lu-bi ${ }^{4} \mathrm{Ir}^{-k i}{ }^{4}$

I conquered the land of Irki
32. ku-hu-dha-a-di (pa-ri)

On departing out of
33. us-ta-di A Ar-tar-mu

On approaching the land of Artarmu
34. gu-nu-si-ni-e śn ${ }^{5}$.
the slaves

[^193]35． $\begin{gathered}\text {＝y } \\ \text { the cities }\end{gathered}$
36．ku－dha－a－（di pa－ri）
Ou departing out of
37．pa－a－a－ri
out of
38．YY ．．．．．．（ご年）$Y \lll$
three ．．．．．．．children，
39．$\langle\rangle$ 人
10，000， 6 （？）．．．．．．woman－folk
40.
＊$\left\langle\left\langle\left\langle Y-Y Y Y-K^{3}\right.\right.\right.$ Y
twice $20,279 \quad(=40,279)$ men his
41．a－da－ki za－as－gn－bi
partly I slew，
42．a－da－ki se－khi－ri
partly alive
43．a－gu－bi－e
I took．
1．The impersonal use of the third person of the verb here must be noticed．It is probable that kharkhar－nie has to be supplied．See xxi．4．Azibie is interchanged in xia．3，with平－YY same word，reference will be made to the tombs excavated in the rock of Yan．The excarations begnn by Menuas in the face of the rock were continued by Argistis．
2．If a character is missing after inaini，it must be $e$ ，or less probably ni．Lara ．．．may be tera ．．．，connected with the stem teru（which is not unfrequently miscopied laru）＇to set up．＇＇establish．＇

[^194]3. Kluti-a-di is the locative of a collective noun in -a (or -ya). The analogy of the Assyrian inscriptions would lead us to believe that the phrase denotes 'with the help' of the gods enumerated. The construction would then be '(moving) in the gods, etc., the helpers (?),' khuti-a-di being a collective noun in apposition with the divine names which follow. If, however, in li. iii. 10, we ought to read khnte-ve instead of khula-te 'belonging to the kings,' khuti-a-di might mean 'among the people of the king.' In that case the phrase would run 'among the people of the king, Khaldis, Teisbas, and Ardinis.' For the equivalent of te and $t i$ cp. as-te-uymmi xxx. 21 and as-ti-u xliii. 42; also Biainaste for Biainasdi.
4. Line 23 shows that the missing character is -ni. Aluśi$n i n i$ is the dative plural of an adjective in -inis, from the adjective alu-śis used as a substantive.

Adayabadi, also written adabadi, appears as adabidi in liv. $6,10,11$, where the $i$ may be due to an assimilation to the $i$ of the suffix. In 1.18 we find bidi-adibad $Y \lll<$ signifying property of some sort 'belonging to slaves' (gunusinini). Compare also biduni. $A d a$ is 'some,' 'part,' 'and,' as well as 'the whole.' The second compound seems to be aba rather than $-b a$, adābadi and adibadi being both contractions of ada-y-abadi. Aba can have no connection with abi in abidadubi 'I burnt,' but may possibly be compared with the Kappadokian word ' $A \beta \alpha-\kappa \lambda \hat{\eta} s$, the title of the supreme pontiff of the groddess Ma at Komana. In any case the analogy of the Assyrian texts, coupled with the word bidi-adibad $Y \lll<$ (' priest + places of service'?), may show that adayabadi should be rendered ' in the service,' or possibly, considering the suffix -a, 'among those who minister to.' ${ }^{1}$ But it may also signify simply 'among the whole assembly.'

[^195]5. As both Schulz and Layard have mu, it is impossible to correct it into $i$, as is done by Mordtmam. Moreover, in line 40 , we find it again, where the reading $i$ is put out of the question by the fact that the word for 'men' in the accusative terminated in -(a)runi (liii. 6). Mu scems to be comnected with ma, mei, ctc., and consequently to mean 'his,' 'its,' 'their,' though I cannot account for the vowel. For si(su)-kiha-mi, sec note on xxxix. 49. It will be seen from the latter passage that the word must be cither 'chariots' (like haikiau), 'magazines,' or 'harncss.' Perhaps 'baggage-waggons' would be best. Ihhuradi-ni-da-hue-da must be analyzed into stem, adjectival suffix -mi, local suffix da, adjectival localizing suffix hue or $r e$, and local suffix. Khuradinida is 'camp.'
6. For the son of Diaves or Diaus, see p. 544. As his territories lay ncar Mclazgherd, the campaigns of Argistis began on the north-west frontier of his kingdom and the northern banks of the Murad Chai, along which the districts of Seriazis, Bias, Khusas, and Tarius would have extended in a north-easterly direction.
8. The determinative before mal-khi shows that females are meant, while the suffix $k \cdot / i$ ' offspring of,' indicates maidenhood. For haldubi see xxx. 10. Here it must bear the specific sense of 'destroying virginity.' The analogy of Assur-natsirpal's inscriptions would go to make andani mean 'boys.'
9. It is curious that the locative $d i$ is omitted after Zabakhae-ve-e-diya, as elsewhere with nouns in -vedias; e.g. xxxviii. 40, 43. From the adjective Zabakhae-sis is formed Zabakhae-si-da.
10. The land of Babanis mentioned here is different from the Babanis or Babas of xxxix. 5, which was in the neighbourhood of Lake Urumiyeh, as well as from the Babanis of 1. 14, which was near Malatiyeh. On the other hand, if a country of Babanis is really named in lv .12 , it would lie in the same direction as the Babanis of our present text, and therefore be probably identical with it. Babas is the name of a Vannic deity, and Baba-rurai a district of Nahri in the time of Samas-Rimmon.
11. Iga-nini, like Alzi-nini (xxxii. 8) and Etiu-nini
xxxvi. 2), must be analyzed into stem, adjectival suffix and accusative suffix.

Sia-cli stands in the same relation to siu-bi as kudha-di to kudhu-bi. For the construction see p. 446.

For the territories of Erias on the Araxes, see xxxiv. 2.
12. Dharu-khini is the acc. pl. of a stem dharu, with the gentilic suffix khinis 'offspring of.' This, as well as the context, forces us to render the word by 'inhabitants.' Comp. teri-klinie (li. 6).
13. We must read lutu-ve-di-a-ni. The individualizing di is here used as in Khal-di-s, Selar-di-s, etc.
14. A comparison with the preceding line shows that atibi must signify 'a thousand.' For the suffix $-b i$, which may here denote the plural, confer ni-ri-bi, azi-bie, kar-bi. Sekhieri here takes the place of the ideographs $-|<| \lll<$ in xxxii. 9, etc.
15. The ideographs here and elsewhere indicate the meanings of pa-khini and suse. Pakhini 'oxen,' comes from a stem pa with the suffix khinis, like dharu-khini above.
16. In Khaldi-a we have the same collective suffix as in khuradi-a, lutuvedia, etc., where it denotes 'people.' In the phrase it $e$-ba-ni-a tu-bi (xxxix. 13) 'I carried away the country-folk' the suffix can have but one meaning, that of 'people of.' We should have expected Khaldia-ni with the adjectival termination, but Khaldi-a was declined like a substantive in -as. Istinie is the dative plural 'these,' agreeing with the collective Khaldia.

Inanida is the site of the city on the acropolis, not the city itself, which was already in existence. The context here pretty clearly defines the sense of inanis or inas. Inas is the original form from which tho adjectival inanis is derived, like cbanis from ebas 'country.' Armi-usinida must be decomposed into the local da, and the adjectival si and $n i$ and $-u$, the stem being ami, for which see v. 17 , and $x \times x i .4$.

As the inscription is engraved on the rock of the citadel of Van, it is clear that hero must be the construction which Argistis 'built in one year,' and the previous mention of 'the
city-site,' shows that it was not the city itself. Since Menuas does not clain to have made anything beyond tombs in the rock of Van, while the sense of 'castles' scems required for armuyada, we can only conclude that arni-u-si-mi-da means 'the citadel,' and that just as ina-ni-da is 'the city,' so arni-u-si-ni-da is 'the citadel,' literally 'the site belonging to that which is fortificd.' The conclusion is confirmed by our finding the word placed between inanila 'the city' and susini 'the walls,' in axxviii. 24. For an illustration of the difference between inani and inamida see xxxix. 58.
18. That is, 'the country of Ultuzais the relative of Kudhurzas of the land of Anistir.' Kudhurzas is prohably the Katarzas of Menuas, sec xxxi. 11. Irudhuran-ni-ni is literally 'belonging to the relative of K .,' and agrees with ebanie.
21. We should probably read E-ti-hu-e.
22. Uduris is the Udharus of Mcnuas, see xxxi. 2. This is another proof of the relationship of $d$ and $d h$; cf. śudlukluli and suductubi.
26. Mari-ni must be the same word as garini in the analogous passage xxxix. 62. Either $m a$ here or $g a$ there is miscopied. Tharbi or garbi looks like a plural substantive in b (similar to azi-bi, azi-bie), and in xxxii. 7, Karbie is 'stones,' 'monuments.' But it may just possibly be the first person of a verb from the same root as gari-ni.
$M_{a}$ must be the possessive 'his,' and apparently differs from mei as 'his' from 'of him.' It is attached to the last noun of the series to which it belongs, instead of following each separately as is the case with mei. It may be an error for $m u$ : see p. 439.
27. The signification of hase, as Mordtmann perceived, is fixed by its being always coupled with the term for 'women,' which it precedes.
34. Perhaps śu(dhukubi).

From line 31 to the end the length of the lines is increasingly diminished, so that the loss of characters is not so great as might appear at first sight.
XXXVIII. (Schulz III.) The second column of the preceding text.

1. MCCLXXX . . (EOA

$$
\begin{aligned}
& 1,28(0) \quad \text { horses } \\
& =Y \text { pa-)khi-ni } Y \lll< \\
& \text { oxen, } \quad \text { (and) }
\end{aligned}
$$

2. XII a-ti-bi DC . . ( (EYY su-se $Y \lll<$ Ar-gis-ti-s a-da-e) 12,6(00) sheep. Argistis says:
3.     - Khal-di-a is-ti-(ni-e i-na-ni-da ar-ni-hu-si-ni-da For the people of Khaldis these the city (and) citadel za-du-)bi I made,
4. Y Ar-gis-ti-ni . . . . dan ${ }^{1}$. . . . . . . . . . . . $-=11$-(ni) belonging to Argistis . . . . . . . . . . . . . . . the city.
5.     - Khal-di-i-ni us-ta-(bi ma-si-ni gis-su-ri-e To the Khaldises I prayed, to the powers mighty ka-ru-ni) id ${ }^{2}$ Kha-a-te ${ }^{3}$
who have given the land of the Hittites,
6. ka-ru-ni YKhi-la-rn-a-da-ni (â-ni-e la-ku-a-da who have given of Khila-ruadas the country as a present Y Ar-gis-)ti-i-ka ${ }^{4}$-i to the race of Argistis.
7. -y Khal-di-i ku-ru-ni Hy Khal-di-ni (gis-su-ri To Klaaldis the giver, to the Khaldises the mightr, ku-ru-ni - Khal-di-ni-ni al-)śu-i-si-ni. the givers, to the children of Khaldis, the multitudinous.
8. $Y$ Ar-gis-ti-s $Y$ Me-nu-a-khi-ni-s a-(da-e khu-ti-a-di Argistis the son of Menuas says: among the king's - + Khal-di-)di - II -di ${ }^{6}$
people, Khaldis, the lord,
${ }^{1}$ So Layard.
${ }^{4}$ So Layard.
${ }^{2}$ So Layard.

3 Schulz has $1 a$.
6 So Layard.

the Air－god（and）the Sun－god，the gods of
Bi－a－）i－na－as－（te）
Biainas，
10．a－lu－śi－ni－ni al－śu－i－（si－ni a－da－ya－ba－di） of（the gods）of the inhabitants the multitudinous among the kha－si－al－me $\rightarrow$ Y $Y \lll$ 。 assembly（？）may make dwell in triumph（？）the gods．
11．Y Ar－gi－is－ti－i－s（ $(\mathrm{Me}-11 \mathrm{~L}-\mathrm{a})$－khi－ni－e－s a－da－e
Argistis the son of Menuas says：
12．hu－lu－us－ta－i－bi $\rightarrow$－Khal－di－ni ．．．．．．．．．．Y＜＜＜
I approached with offerings the Khaldises ．．．．．the gods（？）．
us－ta－di
\＃Kha－ti－na－i－di
On approaching the land of the Hittites
13．kha－（hu－）bi $\ddagger \AA$ Ni－ri－ba－${ }^{1}$ khu－bi $\ddagger$ ．．．．．．．．． I conquered the land of Niriba；I conquered the land of ．．．
．．ur－ma－ni a－gu－nu－ni－ma－a－nu²（？）
．．urmas；the plunder individually
$\begin{array}{lll}\text { 14．gu－nu－hu－sa－a } & \text { kha－a－hu－bi } & =Y Y \text { ．．．．．a－da－ni } \\ \text { for a spoil } & \text { I took．} & \text { The city of ．．adas，}\end{array}$ －＝YY 《＜nu－śi kha－hu－（bi）
the royal city，I conquered
15．－－${ }^{\text {H }}$ Khal－di－ni－ni al－su－i－si－（ni us）－ta－a－di
for the children of Khaldis the multitudinous．On approaching \＃Kha－ti－na－a－tsi－e
the chief of the land of the Hittites，
16．an－da－ni YTu－a－te3－khi－ni $\quad$－ni
the boys（？），of the son of Tuates belonging to the land，
 I remored（and）the girls of the city of Malatiyeh．

[^196]17. Ku-dha-a-di pa-ri =-YY Pi-la-i (?) .... (me-si-? ?ni

On departing out of the city of Pilai . . . . . . its (?)
pi-ni śi $(?)^{1}$-ri ki-ri Me-da-a-i-ni YY
name, the pits (?) (and) banks (?) of Medais the river,
18. it Ma-ar-mu-hu-a-ni it Ka..... a-ni ha-se the land of Marmuas, the land of Ka... as; the men
$\hat{\text { 人 }}$ lu-tu si-i-hu-bi (and) the women I deported.
19. EYYYY Ey- Y<<< kha-ar-khar-su-hu-(bi) $-=$ YYY (Y<<< The palaces I dug up;
the cities
IE I burned ; 2,5(5?)9 children,
 $8,2(?) 98$ people alive I took;
XMDCCCXLVI ${ }^{3}$ 运 lu-tu $Y \lll<$ 10,846 women,
 twice $5(?) 000,9,274$ men its a-(da-ki) za-as-gu-bi a-da-ki (se)-klii-ri a-gu-bi partly I slew, partly alive I took.

##  horses 17,942


23. (Y Ar-gis-ti-)s Y Me-(nu-a-khi-ni-)s a-(da-e $\quad$ - $\boldsymbol{Y}^{( }$ Argistis the son of Menuas says: Fur Khal-di-a (is-)ti-ni-e the people of Klialdis these

[^197]24．（i－na－ni－da）ar－（ni－）hu－si－（ni）－e－da su－si－（ni）Y－太 the city（and）citadel（aud）walls in one year （za－du－）hu－bi I built．

25．（ - Y Khal－di－ni us－ta－bi ma－śi－）ni－e gis－su－ri－e
To the Khaldises I prayed，to the powers mighty， ka－ru－1（ni）it E－（ti）－hu－ni－ni
who have given the land of the Etiuians，
26．（ka－ru－nii
．）it－ni－e
la－ḳu－ni
who lave given of（Uduris）the lands as a present （l）Ar－（gis－ti－）ka－a－i to the race of Argistis．
27．（一个 Khal－di－i ku－ru－ni $\rightarrow$ Khal－di－ni gis－su－ri－i） To Khaldis the giver，to the Khaldises the mighty， ku－ru－ni the givers，
28．（－＞Khal－di－ni－ni al－śu－i－si－ni us－ta－bi to the children of Khaldis the multitudinous I prayed， $Y$ Ar－gis－ti－ni）Y Me－nu－hu－a－khi
belonging to Argistis the son of Menuas；
29．（－Y Khal－di－i－ni hu－lu－us－ta－i－bi $\mid$ Ar－gis－ti－s ada－）e to the Khaldises I approached with offerings．Argistis says ：
30.
81. （pa－）ru bi I carried off

> 32. (...... Y (and) . . . sheep. Argistis the son of Menuas khi-ni-s) a-da-e says :
> 33. 3. . . . . . . . . . . . . . . . . . . . . . . . us-ma-se . . . . . . . . . . . . . . . . . . . . . . . the gracious (?)

[^198]34. (a-gu-nu-)ni ma ${ }^{1}$-nu
. . . . . . . . . . . . . . . . . . . the plunder each.
3 3ั. is du-bi is-ti-ni I destroyed them
36. nu (du-)hu-bi is-ti-ni . . . . . . . . . . . . . . . . . . . . . . . . I destroyed them.
37.
( $(\mathrm{Ar}$-)gi-is-ti-i-s Argistis
38. (Y Me-nu-a-khi-ni-)s a-da-(e khu-)ti-(a-di $\rightarrow$ the son of Menuas says: among the king's people (?)
 Khaldis, the lord, the Air-god, (and) the Sun-god,
39. $\rightarrow$ Y ( $Y \lll-$ as-te) it Bi-a-i-(na-as-te a-lu-śi-ni-ni the gods
al-śu-i-)si-ni of Biainas ; of (the gods) of the a-da-a-ba-di
inhabitants multitudinous among the assembly (?),
40. kha-si-(al-me) $\rightarrow$ Y $\langle\lll$ i-ku-(ka-ni si-su-kha-ni may make duell in triumph (?) the gods the goods (and) harness. us-ta-di) it Hu-bur-da ${ }^{2}$-hu-e-e-di-i-a
On approaching the people of Uburdas
41.

Y Is $^{3}$-lu-bu-ra-a-ni ( 14 Hu -)bur-(da-)al-khi belonging to Isluburas of Uburdas of the inhabitants kha-a-hu-bi \& e-ba-a-ni-i-e I conquered the lands.
 The city of Irduas, the royal city, I conquered.
it Hu -i-su-si-ni nu-lu-us-tu-hu-bi
The land of Visusis I ravaged.

[^199] The men (and) women I deported belonging to them. On ap( $\AA^{\star}$ ) Kha-khi-a-hu-e-e-di-a proaching the people of Fhakhias,
44. $=$ YYYY the palaces I dug up; the cities I burned.

- =YY Bi .... hu (?)-kha-hu-ni-e $-=$ YY-e

The city of Bi . . . hu (?)khaunis (both) city
 (and) soldiers with fire I burned. Over 7000
46. VIIMMCCCCXCVII (
8,497 woman-folk, 1(?)9,790

$$
=-Y_{Y}=E Y Y Y Y \lll-m u^{3}
$$

men
its
47. a-da-ki za-as-gu-(bi a-da-)ki (se-khi-)ri a-gu-bi partly I killed, partly alive I took;

48. ... DCCCIII =Y (pa-khi-ni-)e (pa-ru-bi) ... 803 oxen I carried off (and)
. . MIMDCAXVI su-se $\ \lll$ $1(?) 1,626$ sheep.
49. ( ${ }^{2}$ Ar-gis-)ti-(s a-)da-e $-\boldsymbol{\gamma}$ Khal-di-a is-ti-ni-e Argistis says: For the people of Khaldis these
j0. i-(na-ni-)da (ar-)ni-hu-si-ni-e-(da za-)du-bi the city (and) citadel I built.
51. - (Khal-)di-mi-ni us-ta-a-bi ma-a-si-ni-e gis-su-ri-e To the Khaldises I prayed, the powers mighty,

[^200]${ }^{2}$ Layard has DC.
${ }^{3}$ Schulz has $i$.
children, 2,555 men alive,

52．ka－ru－ni YHa－ar－śi－ta－ni $\ddagger$－ni－e ${ }^{1}$
who have given belonging to Harsitas the countries，

53．ka－ru－ni ざーrr
who have given of Assyria
the armies
as a present to the race Argistis．
55． $\boldsymbol{Y}$ Ar－gi－is－ti－i－s Argistis
56．Me－nu－a－khi－ni－s a－da－e the son of Menuas says：

of Assyria the clief（？）cities
5．Khate corresponds with the Assyrian Khattai，as Mana with the Assyrian Mannai．Comp．the Egyptian Kheta．

6．The name should more probably be read Khite－ruadas． Compare the name of the Hittite prince Khita－sira in the Egyptian inscriptions．Ruada（s）must be identical with the latter part of the names Garpa－runda or Garpa－ruda，king of the Gamgumai，and Girpa－ruda，king of the Patinai，in ı．с．854， mentioned on the Assyrian monuments．The Gangumai lay to the north－west of the Hittites of Carchemish，while the Patinai lived between the Afrin and the bay of Antioch． Comp．the name of Śudani－zavadas xxxiii． 15.

Argistikai is the genitive－dative sing．of a noun Argistikas， formed from Argistis by the suffix－kas．The final $-a$ of $-k$ in （as in tarsu－a，Khalii－a，etc．）indicates that the suffix relates to a class of persons．In liv． 9 we read of the Uryikas， where the termination can denote only a＇tribe＇or＇class＇ of men，and in xxxix． 5 Argistis says he despoiled＂the possessions Dadikai．＂As Dadas is called an auxiliary or something of the kind in lino 32 ，and included in as

[^201]gens or tribe, it is plain that Dadikai must mean "of the tribe " or "family of Dadas." We can therefore understand why the form Argistikai should be used in the phrase which declares that certain countries have been given "as a gift to the race of Argistis." For the application of the suffix to the names of material objects see note on xxi. 3 .
10. I lave no idea as to what is the meaning of khasi-alme. The termination is fomed in ask/he-me, on which see note xxiv. 6. It is just possible that it may represent a third person pl. of the imperative. Thasi-al-me is a compound, consisting of al 'inhabit,' and khasi, which may be comnceted with khasu-bi, xliii. 41, where it seems to mean "I subjugated." Perhaps, therefore, klansi-al-me is " may (the gods) dwell in triumph," or rather "cause to dwell in triumph;" literally "subdue so as to make remain." It is generally followed by an accusative, as in line 40.
13. Niriba must be the Nirbu of the Assyrian inscriptions, which lay between the Sebeneh Su and Mons Masius; see p. 397.
15. Khatinatsic is the genitive after ustacli, like ustadi Khakhiareedia, line 43. See pp. 579 and 436.
16. According to this, the Hittite territory extended as far north as the district opposite Malatiyeh, and adjoined the Sebeneh Su. Tuates may be compared with Tutamu, a Patinian king in b.c. 740. If we read Tualas, we may compare Tulia, who reigned at Tanacun among the Kue (the neighbours of the Patinians) in b.c. 850. The construction is "the boys (?) of the land of the son of Tuates."
17. I do not think the characters given by Schulz and Layard in the latter part of this line can be depended on.
21. If we read $i$ with Schulz instead of $m u$, we should have the phonetic complement of ibirani. But in this case $n i$ would be expected rather than $i$.
24. For suśini see note on $\nabla .17$.
26. That $Y H u-d u-r i-n i$ is to be supplied here seems clear from xxxvii. 22.
41. Isluburani is the adjective agreeing with ebanie, while

Uburdalkhi agrees with it, $n i$ being dropped as in the accusatival Menuakhi, etc.
42. The city of Irduas was the capital of the land of Edias, which was included in Etius, according to xlix. 13-15.
43. It must be noticed that the suffix -edia does not take the locative -di after it, but stands in the genitive case. The double $e$ which appears here and elsewhere seems to denote the length of the diphthong. So asidu-uda, xxxix. 24.
45. Nara-ni shows that the suffix $n i$ might denote the instrumental. But the word may be used as an adjective in agreement with tarsua.

52, 53. For Harśitas or Harśitan, the Assyrian Assur-dan, and ${ }^{4} \uparrow$ -
XXXIX. (Schulz IV.) The third column of the preceding text.

1. Ae-ba-ni-(hu)-ki as-du part of the country occupying, the site of the camp

$$
\begin{gathered}
\text { da-hu-e-da du-hu-(bi) } \\
\text { I destroyed. }
\end{gathered}
$$

 Among the King's people(?), Khaldis the lord, the Air-god,

$$
\Rightarrow Y \text { Y-di }-\gamma^{4} Y \lll \text { as-te }{ }^{5}+13 \mathrm{i}-\mathrm{a}^{6}-11 \mathrm{a}^{7} \text {-as-(te) }
$$ (and) the Sun-god, the gods of Bianas;

3. a-lu-(śi)-(ni-)ni al-śu-i-si-ni a-da-a-ba-a-di
of (the gods) of the inhabitants the multitudinous among the asscmbly (?)

$$
\text { klia-si-al-(me) } \quad-y \quad Y \lll
$$

may mako dwell in trimmph (?) the gods.
4. Y Ar-gis ${ }^{8}$-(ti-s a-da-)o Khal-di-i ku-ru-ni Argistis says: To Khaldis the giver,

- K Khal-di-ni gis-(su-ri-)i ku-ru-ni
to the Khaldises tho mighty, the givers,

[^202]5. - Khal-(di-1ni-ni
al-śu-) i-si-ni
$a-r i-c^{1}-n i^{2}$
to the children of Khaldis the multitudinous. The possessions
Y Da-di-ka-i $\ddagger$ Ku-la-si-ni ${ }^{+43}$ Ba-ba-ni of the tribe of Dadas, the land of Kulasis, the land of Babas,
6. śu-(dhu-ku-bi) . . . . . XXM . . NLM ${ }^{4}$ CCCCXXILA I despoiled . . . . . . . . 31,439

2-se is-ti-ni za ...
children of them
7. . . . . si (?)-hu-bi si-hu-bi e-ba ${ }^{5}-n i-h u-k a-(n i)$
. . . . I carried off. I carried of the tribes of the country (and)
S. $i^{6}$-(ku-ka-ni us-ta-di) $=-y Y^{7}$ Me-na ${ }^{8}$-ab ${ }^{9}$-su ${ }^{10}-n i$-e-di the gooils. On approaching the city of Menabsus
$=-Y Y$ Du-ka ${ }^{11}$-ma-a-i-(di)
(and) the city of Dukamais,
9. (kha-luu-bi - =YY) ............. ( $-=Y Y$ ) <

I conquered the city of . . . . . . . . the royal city ;
+4 e-ba-a-nii-i-e kha-a-hu ${ }^{12}$-(bi) the country I conquered.
10. - =y $\mathrm{Sa}-\mathrm{a}^{13-\mathrm{ra}-\mathrm{ra}{ }^{14}-\mathrm{a}}$ \& Bu-usof the city of Sararas belonging to tu-hu-e the land of Bustus.
11. (us-ta-di)
 On approaching . . . . . of . . . khudu (? ) luis
tit e-ba-ni-e-di
the country,

12. $h u-a-t s i^{1}-i^{2}-d i \neq$ Bar-su-a-i-di the chief $(?)$ of the people of . . . (and) the land of Barsuais
13. (id Bar-su-hu)-a-i the-ba-ni-a tu-(bi)
of the country of Barsuais the countryfolk I carried away ;
$-=Y Y Y \lll<(\#)-b i$
the cities I burned.
14.
. VM . . . . XL ${ }^{3}$ -
.........over 5040 men there
15. . . . . . . (a-da-) ki za-(as-gu-bi) a-da-ki se-khi-(ri)
........partly I slew, partly alive a-gu-(bi) I took.
16. . . . . . . . ( ( $\rightarrow$ -
. . (horses), . . . riders, . . . . . 977
$\Rightarrow \\langle$ pa-(khi-ni) oxen,
17. (pa-ru-bi) . . . . . . . . . . . V . . . . . . . VIV su-se-e

I carried off (and) . . . . . 5 . . . . . . sheep.
18. (Y Ar-gis-ti-s a-da-e) $->$ Khal-di-a is-ti-ni-e Argistis says: For the people of Khaldis these
19. i-(na-ni-da ar-ni-hu-)si-ni-da (su-śi-ni) Y-s the city (and) citadel (and) walls in one year (za-du-bi)
I have built.
20. $\rightarrow$ K Khal-(di-ni us-ta-bi ma)-śi-ni-e (gis-su)-ri-(e)

To the Khaldises I prayed, the powers mighty,
21. ka-ru-ni ta $\quad$ mr
( $\AA^{+}$) . . . . ka . . . . ru (?)
who have given the country of Assyria, the country of .
AA Bu-us-tu-ni
. . . . . . . . . . the country of Bustus,
${ }^{1}$ Schulz has at.
${ }^{3}$ So Layard.
4 So Layard. Schulz has IV instead of VII.
${ }^{5}$ So Layard.
22. \& Tar-i-hu-ni la-(ku-a-da) Y Ar-gis-ti-ka-i (and) the comntry of Tarius as a present to the family of Argistis.
23. $-\boldsymbol{*}$ Khal-di-ni-ni al-śn-(i-si-)ni Y Ar-(gi-)is-ti-s

To the children of Khaldis the multitudinous Argistis
a-da-e
says:
24. $=Y Y Y Y \equiv Y-Y \lll-s i-d u-h u-h u-d a \neq$ Su-ri-(si-)da-(ni-)i the site of the palaces of the country of Surisidas is-pu-hu-i-hu-bi
I overmastered (?)
2.5. tA $\rightarrow$-ry $=-1$ khu-ra-di-i-e ta e-ba-ni-hu-ki as-du ${ }^{1}$ (and) of Assyria the armies part of the country occupying.
26. khu-ti-a-di - K Khal-di-e-di -II-di $->$

Among the king's people (?), Khaldis the lord, the组-di $-Y$ - di
Air-god, (and) the Sun-god,
27. $->$ Y $Y \lll$ as-te 4 Bi-a-i-na-as-te ${ }^{2}$ a-lu-śi-ni-ni the gods of Biainas; of (the gods) of the in-(al-)śu-i-si-ni a-(da)-a-ba-di
habitants multitudinous among the assembly (?)
28. kha-si-al-me - Y Y<<< $\quad$ Ar-gi-is-ti-s $\quad$ Me-nu-amay make dwell in triumph (?) the gods. Argistis son of Me-khi-ni-s a-(da-)e
nuas says:
$\begin{array}{cl}\text { 29. }-y \text { Khal-di-i } & \text { ku-(ru-)ni Khal-di-ni } \\ \text { To Khaldis } & \text { the giver, }\end{array}$ (gis)-su-ri-i ku-ru-ni the mighty, the givers,

[^203]
of Assyria all (?)
\& e-ba-ni-hu-ka-ni the tribes of the country,
32. Y Da-a-da-ni $工$ - $Y$ - (A-hu-)e-ra-(si-ni) ... Dadas the Averian (auxiliary) . . . . . a-mu ${ }^{4}-h u^{5}-b i$ I captured (?)
33. i-ku-ka-ni-mu us-ta-di
(and) the goods his. On approaching the country of . . ( $\mathrm{di} \mathrm{i}^{4}$ ) . . . . . $\mathrm{i}^{6}$-e-ee(? $)^{7}$-di . . . the country of . . . . . ieis,
34. A Ar-kha-hu-e-e-di (- = Y $)$
(and) the land of Arkhaveis, the city of $\left(-=Y Y\left\langle\langle ) n u\right.\right.$-śi ${ }^{8}$
the royal city,

60 cities, the mon (and) the women as-gu-bi
I took.
36. us-ta-di A Bu-us-tu-hu-c-di (kha-hu-bi it On approaching the country of Bustus, I conquered the $\mathrm{Sa}^{9}$ - $) \mathrm{ti}^{10}{ }^{10}$ - $\mathrm{ra}-\mathrm{ra}^{11}$ - (hu-ni) land of Satiraraus ;

[^204]37. $-=$ YY A-bur-za-ni-nii $\quad=y Y$
the city of the Aburzians, the city of
. . . . . gi-(ni) . . . . . gis,
33. -EYY Ḳa-du-ka-ni-hu-ni
the city of Kadukanius (and) the land of . kha-hu-bi I conquered.
39. $\mathbf{Y r}$ Ar-gi-is-ti-s a-da-e (us-ta-di $\uparrow$ ) .

Argistis says: On approaching the land of . . . . tı-hu-(bi)
I carried away.
40. ku-dha-(a-)di pa-a-ri $\ddagger$ Ma ${ }^{1}$-(na-a $\ddagger \ldots$... On departing out of the land of the Minni, the land of . . . . . A A ${ }^{4}$ ) Ba-ba ${ }^{2}-\mathrm{a}$
. . . . . . (and) the land of Babas
41. XMVIIIMDCCCXXVII 18,827
soldiers
sa-a-(da-)e
there
42. a-da-ki za-as-gu-bi a-da-ki se-khi-e-ri (a-gu-)bi DCVI partly I slew, partly alive I took, (and) 606 (EY) it ExY horses,
 184 camels 6,257
=1र pa-khi-ni XXXMIIIMCCIII EYY-se oxen, (and) 33,203 sheep.
44. $Y$ Ar-gis-ti-s $Y$ Me-nu-a-khi-ni-s a-da-e $\rightarrow$ Y Argistis son of Menuas says: For the people of Khal-di-a (is)-ti-ni-i-e Khaldis these

[^205]45. i-na-ni-e-da ar-ni-hu-si-ni-e-da su-śi-ni-i(?) za-du-hu-bi the city, the citadel (and) the walls I have built.
46. $\rightarrow$ Y Khal-di-ni us-ta-a-bi ma-a-śi-ni-e gis-su-ri-i-e To the Khaldises I prayed, the powers mighty,
47. ka-ru-ni
who have given
ka-ru-ni
who have given

* Bu-us-tu-ni
the land of Bustus

48. la-ku-a-da
(1) Ar-gis-ti-ka-a-i
-芰
as a present to the race of Argistis. To the children Khal-di-ni-ni al-śu-i-si-ni of Khaldis the multitudinous
49. Y Ar-gis-ti-s a-(da-)e sur-kha-a-ni Y-Y̌ $a$-siArgistis says: the harness (?) (and) the cavalry $Y \lll-h u-e-d a-d u-h u-d a$ quarters
50. khu-ti-a-di $\rightarrow$ (Khal-di)-di - II-di - Y
among the king's people (?), Khaldis, the lord, the -
Air-god (and) the Sun-god
51. $\rightarrow$ > $Y \lll<-a s-t e{ }^{\text {At ( }}$ (Bi-a-i-)na-as-te a-lu-hu-śi-ni-ni
the gods of Bianas, of (the gods) of the inhabitants
52. al-śu-hu-i-si-(ni) a-da-a-ba-di kha-si-al-me the multitudinous among the assembly (?) may make

$$
-x y \lll
$$

dwell in triumph (?) the gods.
53. $\boldsymbol{\text { Ar-gi-is-(ti-) }} \boldsymbol{Y}$ Me-i-nu-hu-a-khi-ni-c-s a-da-e Argistis the soll of Menuas says :
54. - Khal-di-i ku-(ru-)ni Hhal-di-ni gis-su-ri-i

To Khaldis the giver, to the Khaldises the mighty, ku-ru-ni the givers,
55. - - Khal-di-(ni-ni al-)śu-hu-i-si-ni us-ta-di to the children of Khaldis the multitudinous; on approaching
 of the Iyaians the country the country I conquered. 57. EMYYY EY- Y《<< khar-2 ${ }^{2}(\mathrm{khar-su})-\mathrm{hu}-\mathrm{bi} \quad-=Y Y Y \lll$ The palaces I dug up, the cities
a-ma-as-tu-hu-(bi)
I plundered.
58. $-=$ YY E-ra-dha ${ }^{3}$-(da-hu-ni $-=$ YY $)$ E-ra-dha-da-e-hu-da The city of Eradhadaus (\&) the site of the city of Eradhadaus kha-hu-(bi)
I conquered.
59. ha-se ( ${ }^{2}$-hu-e-di-a-ni is-ti-)ni-ni pa-ru-hu-(bi) . . . .

The men ( $\mathbb{E}$ ) the women-folk belonging to them I carried off. . . 60. $\mathrm{i}^{4}$-(? ku-ka-ni) us-ta-di $\mathrm{Ha}^{4} \mathrm{Ma}-\mathrm{na}-\mathrm{ar}-\mathrm{i}$ di (and the goods?). On approaching the country of the Minnni 61. ..... ( ${ }^{\text {A }}$, Bu-)us-tu-hu-ni YY ${ }^{5}$ Tu-ra . . . . . . . . the land of Bustus, the river Tura . . . . .
62. ga'ri-ni $\left\{\begin{array}{l}\text { gar } \\ \text { kar }\end{array}\right\}$ bi (a-gu-)nu-ni-(ma) the . . . . . the monuments (?) its plunder
63. (gu-nu-sa-a kha-)a-hu-(bi)
for a spoil I took.
64. ha-se (is-)ti-ni-ni si-(hu-bi)

The men belonging to them I deported
${ }^{1}$ So Layard.
${ }^{3}$ Layard omits; Schulz has
${ }^{4}$ So Layard. 5 So Layard.
${ }^{3}$ Layard omit
${ }^{4}$ So Layard.
${ }^{6}$ So Layard. See xxxrii. 26 (ma).


1. Asdu must be the ace. pl. of a noun. The formation of the word is analogous to that of askilu, asgu. It may be a compound of as(is) 'house,' and either $d u$ 'to bring' (like ter$d u$, etc.), or $d u$ 'establish' (as in asidûda line 24, and aśi-ve$d a-d u-d a$ xhiii. 43). In this ease asdu will be contracted from asidu as Biainaste from Biainasidi. The retention of the $d$ after $s$, contrary to the usual rule, looks as if this were the true explanation of the form. Asclu will then be 'house-establishments' in apposition with kluuradiné-da-ve-da, and cbani-ulki (with which ebani-ki-di 1.27 must be compared) will be 'in part of the country.' Ebani-u-ki is the adverbial case of an adj. in $-u$ from cbanis. Perhaps, however, ebani-u-ki-as-clu forms one word and stands for cbani-u-ki-a-si-du 'establishments of the people in part of the country.' In any case the translation given in the text seems to be approximately the right one. See note on li. iii. 3. It is evident that the defeats undergone by the Assyrian forees took plaee not in their own territory but in some subject distriet. In the eponym lists the wars between Assur-dan and Argistis are deseribed as being 'in the land of Ararat.'

[^206]5. Arie-ni, which must plainly be read here, is connected with aricedha 'he was' or 'bccame' (xlix. 18).

Dadas (line 32) has become Dadikai just as by the side of Biainas we find Binas.
7. Eba-ni-uka-ni is an adjective in -u with the suffix -kas attached to it. Sce note on xxxviii. 6.
10. Bustus is the Bustu of the Assyrian texts, of which Shalmancser says on the Black Obclisk (line 186) that after devastating 'the borders of Ararat' he reccived in Gozan the tribute of Gozan, the Minni, Burir, Murran, Sasgan, Andia, and Kharkhania, then destroyed the cities of Perria and Sitivarya, and then 'to the cities of Parsuas went. The cities of Bustu, Sala-khamanu and Kini-khananu, fortified towns, together with 23 cities which depended on them, I captured.' After this, Shalmaneser entered the mountains of the Zimri or Kurds and then descended upon Holvan. See p. 400. Sitivarya must be the Sararas of our text, which is written Satiraraus in line 36 and xl. 54 .
12. Barsuas is the Barsuas or Parsuas of the Assyrian inscriptions, to the south-west of Lake Urumiyeh. As in Hebrew, Vannic s corresponds to Assyrian ś (D).
14. Sadae, also written sada (xl. 13), with the local suffix $d a$, is shown by xl. 13 to be an adverb of place like inida. The pronominal stem sa probably makes its appearance in $s a-n i$ ( 1 v .12 ) and sa-ve (li.5), as well as in the compound verb sa-tubi (1. 17).
24. Asidu'uda (? asidvuda) is a compound of asi- 'house' and du 'establishment,' like aśiveduududa in line 49. This $d u$ must be carefully distinguished from $d u$ 'to carry away,' and is a contracted form of $u d u$ 'monument' (li. 3).

Ispui-u-bi has the same root as the royal name Ispui-nis, which may possibly mean ' the lordly.'
30. The adjective Avera-sis may be a proper name, but the determinative makes it more probable that it is a significative moun, in which case it can hardly have any other meaning than 'auxiliary.'
40. For the Manas, the Mannai of the Assyrians and Minni of the O. T., see above.
49. In xxx. 20 we find hakhau ' chariots,' which may possibly be compounded with the root of hase 'men,' so that we could compare the latter part of the word with the latter part of surkhani. In any case sur-kha-ni claims affinity to sisu-kha-ni and we must compare :
ikukani-mu sisu-kha-ni khuradi-ni-da-ve-da dubi xxxvii. 5.
(following the phrase khutiadi, etc.)
ikukani-mu sisu-kha-ni aśi-ve-da-(duda) xliii. 43.
(preceding the phrase kihutiadi, etc.)
ikukani-mu sistini xlix. 7.
It is clear either that surkhani is a synonyme of sisukhani or that sur is miscopied for sisu. The context defines the meaning within narrow limits.

Aśi-ve-da-du-du is literally 'place of establishment of place belonging to riders.'
62. For karbi see note on xxxvii. 26.
XL. (Schulz V.) The fourth column of the preceding text.

This portion of the inscription is engraved in the angle of the south-west part of the rock.

1. XMVIIIMCCXL ${ }^{1}$ III.

18,243
2. $\operatorname{Zry}$ ta-ar-su-a-ni-e-i-mu
soldiers his
3. a-da-ki za-as-gu-hu-bi partly I slew
4. a-da-ki se-khi-ri-e ${ }^{2}$ a-gu-bi partly alive I took,
 (\&) $7,9(0)$ horses,
6. C ul (? $)^{3}-\mathrm{dhu}^{4}-\mathrm{ni} \quad Y \lll<$ 100 camels

[^207] 22,529
oxen
8. NXXMVIMDCCCXXX
(\&) 36,830

## YIY su-se

 sheep.9. $Y$ Ar-gi-is-ti-i-s a-da-e Argistis says:
10.     - Khal-di-a

For the people of Khaldis is-ti-ni-e these
11. i-na-a-ni-da-e the city,
12. ar-ni-hu-si-ni-da the citadel,
13. su-śi-ni sa-a-da za-du-bi
$(\mathbb{E})$ the walls there I have built.
14. - Khal-di-ni us-ta-bi

To the Khaldises I prayed,
15̌. ma-śi-ni-e (gis-)su-ri-e
to the powers mighty
16. ka-ru-ni ( $\uparrow$ \&) Ma-na-n
who have given of the Minni
17. e-ba-a3-(ni-)i-e
the land,
18. ka-ru-ni ( ${ }^{4}$ Tr-ki-) ${ }^{4} h u-n i-n$
who have given the land of Irkiumis
19. la-e-ku-hu-a-da
as a present
20. $Y$ Ar-gi-is-ti-ka-i
to the family of Argistis.

[^208]21. - 4 Khal-di-ni-ni

To the children of Khaldis
22. al-śu-hu-i-si-ni
the multitudinous,
23. $Y$ Ar-gi-(is-)ti-s

Argistis
24. a-da-e (khu)-ti-a-di
says: among the king's people (?),
25. - $\boldsymbol{\sim}$ Khal-di-e-di - YII-di

Khaldis
the lord,
26. $->$ - $x y-\mathrm{di}$
the Air-god (and) the Sun-god,
27. $->Y$ Y $\lll-$ as-te $\ddagger \mathrm{Bi}-\mathrm{a}-\mathrm{na}$-as-te the gods of Bianas;
28. a-lu-śi-ni-ni al-śsu-si-ni
of (the gods) of the inhabitants the multitudinous
29. a-da-a-ba-di kha-si-al-me
among the assembly (?) may make dwell in triumph (?)

- > Y $\lll$
the gods.

30. $Y$ Ar-gi-(is-)ti-i-s Argistis
31. Ye-nu-a-khi-ni-s a-da-e
the son of Menuas says:
32.     - Y Khal-di-i ku-ru-hu-ni

To Khaldis the giver,
33. $\rightarrow$ Khal-di-i-ni gis-su-ri-i ku-ru-hu-ni
to the Khaldises the mighty, the givers,
34. $\rightarrow$ Khal-di-i-ni-ni al-śu-i-si-ni us-ta-di
to the children of Khaldis the multitudinous. On approaching
35. A Ma-na-i-di kha-hu-bi it Ir-ki- ${ }^{1}$-hu-ni-ni the land of the Minni I conquered the land of Irkiunis.
36. ku-dha-a-di pa-ri th $-2 V^{2}$-ni-ni

On departing out of the lands belonging to Assyria, A Al-ga ${ }^{3}-11 i$
the land of Algas,
37. VIMCCCCLXXI $=Y Y$ YYY $Y \lll<-m u \quad a-d a-k i$ 6,471
of its inen
partly
za-as-gy-bi
I slew,
38. a-da-ki se-khi-ri a-gu-bi CCLXXXYI partly alive I took; (and) 286

## tity Yy Y

horses,
39. IIMCCLI $=$ Y
2,251
su-se $Y \lll$ sheep.
40. Y Ar-gis-ti-s a-da-e $\rightarrow$ Khal-di-a is-ti-ni-e Argistis says: For the people of Khaldis these 41. i-na-ni-da ar-ni-hu-si-ni-da $\quad$ tan za-a-du-bi the city (and) citadel in one year I have built.
42. Khal-di-ni us-ta-bi ma-śi-ni-e gis-su-ri-e To the Khaldises I prayed, to the powers mighty,
43. ka-ru-hu-ni
who have given 4. Ma-na ${ }^{\frac{1}{-}-a-n i}$ of the Minni i* e-ba-ni-i-e the land,
44. ka-ru-hu-ni ti Bu-us-tu-ni la-ku-hu-a-da who have given the land of Bustus as a present

[^209]45. $\boldsymbol{Y}$ Ar-gi-is-ti-i-ka-i
to the family of Argistis
46. -7 (Khal)-di-ni-ni

To the children of Khaldis, Y Ar-gis-ti-s
Argistis
47. (a-)da-e khu-ti-a-di
says: among the king's people (?),
$-[I I-d i$
the lord,
48.

the Air-god (and) the Sun-wod
さ Bi-a-na-as-te
of Bianas;
49. a-lu-síni-ni
of (the gods) of the inhabitants
a-da-a-ba-di
among the assembly (?),
50. kha-a-si-al-me $\rightarrow$ - $Y \lll$
may make dwell in triumph (?) the gods.
al-śsu-i-si-ni
the multitudinous
51. (Y) Me-nu-a-khi-ni-s a-da-e - - Khal-di-i ku-ru-ni
son of Menuas says: to Khaldis the giver,
52. - Khal-di-ni gis-su-ri- $\mathrm{i}^{1}$ ku-ru-ni $\rightarrow$ -
to the Khaldises the mighty, the givers, to the Khal-di-ni-ni
children of Khaldis
53. al-śu-i-si-ni
us-ta-di $\quad \because$ Bu-ulis-tu-e-di
the multitudinous. On approaching the land of Bustus
54. kha-hu-bi $\ddagger$ As-ka-ya-i khu-bi $\ddagger$

I conquered the land of Askayas. I conquered the Sa-ti-ra-ra-hu-ni land of Satiraraus.

5J̃. an-da-ni $\ddagger$ IIu-cri-is-ti-ni ha-al-du-bi
The boys (?) of the land of Ugistis I removed
56. ( $\mathcal{L}^{-}$) ma-at-khi $\uparrow$ Hu-hu-si-ni ku-dha-a-di (and) the girls of the land of Vusis. On departing
57. pa-ri-e it A-la-dha-i it Ba -ba ${ }^{1}-a^{1}$-ni out of the land of Aladhais, of Babas

5S. ( 44 ) e-ba-a-ni a-ma-as-tu-bi $-=Y Y Y \lll<$ klaar-kharthe country I plundered; the cities I dug (su-)bi up;
59. ha-a-se $\uparrow$ lu-tu is-ti-ni-ni pa-ru-(hu-)bi the men (and) women belonging to them I carried off;
60. . MDCCCLXXIII $=$ Y 1 - ta-ar-su-a-(ni-e-mu) $1(?), 873 \quad$ of its soldiers
61. a-da-ki za-as-gu-bi a-da-(ki se-khi-ri a-gu-)bi partly I slew, partly alive I took.
 80 horses I carried off;
63.
 camels, oxen,
64. . . . D . . . (Ey su-se)
(and) . . . 5(00) sheep.
65. ( $($ Ar-gis-)ti-s a-da-e $\rightarrow$ Khal-di-(a is-ti-ni-e) Argistis says: for the people of Khaldis these
66. (i-na-)ni-da ar-ni-(hu-si-ni-da $\gamma$ za-du-)bi the city (and) citadel in one year I built.
67. - Y Khal-di-ni us-ta-bi ma-(śi-ni-e gis-su-)ri-e To the Khaldises I prayed, to the powers mighty,

[^210]68. (ka-ru-)ni Ma-na-a-ni who have given the country of the Minni (and) of . . . .
. . di-i-e
. . dis
69. (4 4 ) -ni
the country
(1) Ar-gis-ti-ka-i
to the family of Argistis
( $(\mathrm{Me}$ )-nu-a-khi-ni-e the son of Menuas.
70. (-y Khal-)di-i-ni-ni al-śu-i-si-i-ni

To the children of Khaldis the multitudinous
71. (Y Ar-gis-)ti-s Y Me-nu-a-khi-ni-s a-da-e

Argistis the son of Menuas says:
72. . . . Y Ar-gis-te ${ }^{1}$-e-khi-ni-da ${ }^{2}$
(The land) as the satrapy of the son of Argistis
si-du-bi
I established (?).
73. (it) Ma-na-ni $\mathcal{A}^{3}$-e $Y \mathrm{Ha}^{4}$-za-i-ni-e
The land of the Minni hostile, belonging to Hazais
t-ni-e a-gu-bi
the country I took
74. . . . . . . ${ }^{\AA^{4} 5}$ ma-na-da (? $)^{6}$-śsi-ra-ni kha-i-la-a-ni
the . . . . . . , the . . . of the Minni, the . . . . . . . . . .
75. (khu-ti-)a-di

Among the king's people (?),

-     - Khal-di-e-di - IU- Cli
- 4 \& HI-di
the Air-god

[^211]

```
(and) the Sun-god,
    the gods of Van ;
    a-lu-śi-ni-ni
    of (the gods) of the inhabitants
```

77. (al)-śu-i-si-ni a-da-a-ba-di kha-si-al-(me
multitndinons among the assembly (?) may make dwell

$$
--7) Y \lll
$$

in triumph (?) the gods.
78. (1) Ar-gis-ti-s a-da-e se ip (? $)^{1}$ tu śi na . . . . . a a (? e) Argistis says:
79. (Ǩy-) a-śi $Y \lll-t s i-e$ the chief (?) of the riders the rank and file . . . . . . .

| 80 | $\text { 䈟 } \dagger \text {-śi-ra-ni }$ | ka-ab-ka-ru-hu-bi nu-na-bi ${ }^{2}$ |
| :---: | :---: | :---: |
|  |  | I approached; I attached | \& Ma-na-(a-)ni

the land of the Minni.
81. - Y Khal-di-i-ni-ni al-su-hu-(i-si-)ni

To the children of Khaldis the multitudinous.
6. It is unfortunate that the reading of this word is so uncertain, as the meaning is clear from its taking the place of the ideograph which denotes 'camels' in xxxix. 43 , etc.
36. For the land of Alganis or Algas see v. 18.
53. Bustuedi stands for Bustu-ve-di.
68. The country meant here may be the same as the Aladhais of line 57.
72. Literally ' the place of the son of Argistis.' For sidubi see note on as-du xxxix. 1. and cp. asidu xxxix. 24, and $=1$-du li. iii. 3. The root of sidubi may be the same as that of sidis ( $=$ sidi-si). Argistis himself had governed a district during his father's lifetime (xxix. B. 3).
73. The name of Hazas occurs again in liv. 1. It is

[^212]evidently the Aza of the Assyrian inscriptions. In the time of Sargon Aza son of Iranzu was king of the Minni, like his predecessor in the age of Argistis.
74. The reading of the first part of this line is too uncertain to admit of even conjecture. From lipe 80, we see that the word which terminates in -śirani was preceded by only one character. It must have denoted some class of persons. Comp. =YYY Y<<<-ra-ni and ibirani. If khailani should rather be read khaiteani, we might perhaps compare khaidiani li. 6.
79. We have aśitsic and not asiatsie, since the collective suffix $-a$, denoting 'people,' was naturally added only to names of localities, not to nouns signifying persons. In -ve-da-śi-nie, -ni and -śi are arjjectival suffixes (śi as in $n u-s{ }^{\prime} i$ ), $d a$ being the suffix of locality, and ve of local attachment.
80. For kabkarubi see v. 25.
XLI. (Schulz VII.) The fifth column of the preceding text.

This part of the inscription is engraved over the entrance of the chambers.

1. (Y) Ar-(gis-ti-s Argistis
2. khu-ti-a-di

Air-god (and) the Sun-god,
3. $\rightarrow$ Y $Y \lll<$ as-(te $\uparrow$ Bi-a-na-as-te a-lu-si-ni-
the gods
$11 i \quad$ al-śs-i-si-ni)
inhabitants multitudinous
4. $a-d a-i-(a-b a-d i$
among the assembly (?)
$\begin{array}{ll}Y \text { Me-nu-a-khi-ni-s } & \text { a-da-e) } \\ \text { the son of Menuas } & \text { says: }\end{array}$
$(-y$ Khal-di-di -II-di $-y$ Among the king's people (?), Khaldis the lord, the

$$
\begin{aligned}
& \text {-Y } Y \lll<=Y-\text { a-si- } Y \lll-\text { hu-e-da du-bi) } \\
& \text { the gods. The stabling } \quad \text { I destroyed. }
\end{aligned}
$$

5. us-ta-di it $^{4}$ Ur-me-e-di ${ }^{1}$ (kha-hu-bi $\uparrow$ U Ur-me-i-ni) On approaching the land of Urmes, I conquered of Urmes
6. ( $\left.\begin{array}{l}1 \\ 4\end{array}\right)$-ni-e
-ni-a
tu-bi ku-dia-(a-di
the country. The country folk I carried away. On departing pa-ri *it) ........... out of the land of . . . . . .
 the cities I burned. The men (and) women I took
i $\mathrm{Bi}^{3}$-(a-na-i-di)
to Van.

Over 14,813 of its men partly za-as-gu-bi a-da-ki ${ }^{5}-\mid<\left\langle\lll{ }^{\circ}\right.$ (a-gu-bi) I slew, partly alive I took,
7. KXV A A EYY Yくく, ... MDCCXL ${ }^{7}$ IV (and) 25 horses, over 1,744
Y pa-khi-ni XLMVIIMMDCCCXXV FIY-(se)
oxen, (and) 48,825
8. Y Ar-gis-ti-s Y Me-nu-a-khi-ni-s a-da-(e) $\rightarrow$ ( Argistis the son of Menuas says: For the Khal-di-a is-ti-ni-e people of Khaldis these
9. i-na-(ni-)da ar-ni-hu-si-ni-da (su-)śi-ni-mu ${ }^{8}$ za-a-du-bi the city, the citadel (and) its walls I built.
10.     - (Khal-di-ni-ni
al-)śu-i-si-e-(ni $\quad Y$ Ar-gis-ti-s

To the children of Khaldis the multitudinous Argistis a-da-e says

[^213]13. i-hu <<nu-a-di (?a-)da-e-me $\rightarrow$ (Khal-)di-s thus: Among the people of the king the sum total (?) Khaldis a-ru-ni hu-i ${ }^{1}$ Al-di-ni-e ${ }^{2}$ has brought, and for the Klualdinians
14. VII(M) . . . LXVI $=Y$ pa-khi-ni LMDCCCLXVIII
over 7,066
oxen
(and) 50,868

## FIY Y<<< sheep.

15. Y Ar-gi-(is-ti-s) a-da-e i-na-ni mu-mu-hu-i-ya-bi Argistis says: the city I enriched (?).
16. (-y) Khal-di-ni-ni al-śu-i-si-ni YAr-gis-ti-s

To the children of Khaldis the multitudinous Argistis

$$
\begin{aligned}
& \text { a-da-e } \\
& \text { says }
\end{aligned}
$$

17. i-hu $=Y$ Yi Bi-(khu-ra-)a-ni ka-ab-ka-a-ru-lu-hu-bi thus: the city of Bikhuras I approached.
18. $-2 Y$ Bi-khu-ra-a-ni a-śu-ni-ni

The city of Bikhuras, the neighbouring (cities),

> t Ba-am-ni kha-ar-kha-a-ru the country of Bam (with) digging up,
19. mu-ru-mu-ri-a-khi-ni $n a^{3}-a-n i \quad p a-r i \quad \Rightarrow$ \&y
the children of . . . . . . (and) the city (?) out of the Sun si-i-e-s removing,
20. \& Ba-am-ni khar-khar-sa ${ }^{4}$-bi-i- $\mathrm{e}^{5}-\mathrm{s} \quad=-Y Y$ Bi-khuthe country of Bam digging up, the city of Bikhu-ra-ni klia-a-hu-bi ras I conquered.
${ }^{1}$ So Layard. Schulz has mu.
${ }^{3}$ So Schulz. Layard has kiv.
${ }^{3}$ So Layard.

[^214]5. Sarduris IT. the son of Argistis mentions the comntry of Urmes (xlix. 22), apparently in the same direction as Etius, i.e. on the northern side of the Araxcs. It is certainly tempting to compare the name of Lake Urmmiyel.
13. In . . daeme we have perhaps the same suffix as in askhu-me and khasi-al-me. The word seems to denote 'sumtotal.' Cp. adaiši 'collecting.' If Schulz is right in reading $m n$, umn wonld be the accusative plural of an otherwise unknown word.

Aldinie, the dative plural of an adjective in -nis, is derived from al-di, formed from the root al by the suffix of agency di. It is clearly a different word from aldinis 'stone' v. 29, and is shown by lvi. to stand for Khaldinie.
15. We find mumn-ni in xlv. 23 combined with ardi-(ni) and a list of articles of tribute. It mmst there mean either 'governor' or 'impost.' Mamu-ya-bi, formed by the collective suffix (as in armn-ya-(la), decides rather for the latter than for the former signification. See lvi. i. 2.
18. Kharkharu would be the acc. pl. of a noun kharkharus ' a digging up.' It stands in apposition with the preceding accusatives.
19. The reduplicated muru-muris is not found elsewhere. The suffixes $-a$ and -khinis, however, sufficiently indicate the general meaning of the word. Compare dharn-khini, terikhinie, and asazie-khinie. If nani is the right reading, seems to have fallen out before it or to have become obliterated, unless, indeed, the final $i$ of the preceding $n i$ was intended to run on into the following word. But I fancy we ought to read here mani 'it.' Sies is the participle of si-u-bi, as khar-khar-sa-bies is of kharkihar-sn-bi.
20. The latter word is very remarkable, as the first person singular is changed into a participle by the mere addition of the suffix -es and the change of the preceding vowel from the verbal $u$ into the nominal $a$. The context leaves no doubt as to its meaning.

## XLII．

The inscription was continued on the door of the entrance， but of this ouly a few characters remain，which were not copied by Schulz．Sir A．H．Layard，however，made out the following ：－

$$
\begin{aligned}
& \text { 1. (-y Khal-di-ni-ni al-)su-i-(si-ni } \\
& \text { To the children of Khaldis, the multitudinous } \\
& \text { gis-ti-(s } Y \text { Me-nu-a-khi-ni-s a-da-e) } \\
& \text { gistis the son of Menuas says: }
\end{aligned}
$$

After this there is a break，and the ends of the last six lines are alone visible ：

$$
\begin{aligned}
& \text {. . . . . . . . . . . . . }=\text { YY葖筑 na gi } \\
& \text {-Y - Y Khal-(di-)ni } \\
& \text { (us-ta-bi ma-śi-ni-e gis-) su-ri-e } \\
& \text {. . . . . . . . . . . . . da-e-ni } \\
& \text {.............. a a } \\
& \text {.............. ssi ku ni }
\end{aligned}
$$

XLIII．（Schulz VI．）The continuation of the preceding text．
This part of the inscription is engraved on the left side of the entrance to the chambers．
（1）．Ar－gi－is－ti－s a－（da－e）
Argistis says ：
（2）．ba－di－ni－ni śu－hu－i du ${ }^{1}$－（luu－bi）
what belonged to all（？）the whole（？）I have destroyed．
（3）．EYYYY EY－kha ${ }^{2}$－lıu－bi e ir ${ }^{3} \mathrm{i} \ldots$
the palace I conquered．
（4）．
The people of the land I carried off．The cities a－（bi－da－du－bi） I burned．

[^215](5). IIIMCCLXX~-r>1 ta-ar-su-hu-(a-ni)
$$
3,270 \quad \text { figliting-men }
$$
(6). a-da-ki za-as-gu-bi a-da-ki se-khi-(ri a-gu-bi) partly I slew, partly alive I took.
(7). CLNX 170 liorses I carried off, 62 EYE YY (E-Y - camels,
(8). IIMCCCCXI $=$ र pa-khi-ni $Y \lll<I^{2}$ MCNL . . 2,411 oxen, 6,14(0) (EIV su-se) sheep.
(9). Y Ar-gis-ti-s a-da-e ${ }^{3} \rightarrow$ (Khal-)di-a Argistis sags: For the people of Khaldis (is-ti-ni-)e these
(10). i-na ${ }^{4}-n i-d a$ ar-ni-(hu ${ }^{5}$ )si-ni-da (Y) - $^{6}$
the city (and) citadel in one year (za-)du-bi I have built.
(11). $->$ Khal-di-ni us-ta-bi ma-śi-ni-e gis-su-ri-i-e To the Khaldises I prayed, to the powers mighty,
(12). ka-ru-ni $\ddagger$ Dhu-a $^{7}$-ra-a-tsi-ni-e-i khu ${ }^{8}$-(dhu)
who have given of the chiefs(?) of Dhuaras portions,
(13). śi ${ }^{9}$-ri $\quad{ }^{11}$ Gur-ku ${ }^{11}$-hu-e ka-ru-ni
the corn-pits of the land of Gurkus; who have given A Ma-na-a-ni of the land of the Minni

[^216] the cavalry as a present to the race of Argistis.
(15).

Y Ar-gi-is-ti-i-s a-da-e -y Khal-di is-(ti)
Argistis says: For Khaldis this
(16). Ty< ${ }^{1}{ }^{1}$-(gu-nu ${ }^{2}$ )-ni e-ha ${ }^{3}$ khu-dhu tu-khi a sistieth of the spoil, this portion of the captives e-ha gu-nu-se (and) this plunder,
(17). . . YYY Da-i-na-la-ti-ni-ni

* -e a-gu-bi
(beside) the river of the Dainalatians doubly I took.
(18). za-a-du-hu-bi ku-ul-me-i ${ }^{4}$-e ${ }^{4}$ Su-ra-hu-e

I built the strongholds (?) of the land of Suras.
(19). $\boldsymbol{Y}$ Ar-gi-is-ti-s $\quad$ Y Me-(nu)-a-khi-ni-s a-da-e

Argistis the son of Menuas says:
(20). khu-ti-a-di - Khal-di-e-di - II-di -4 Hf di among the king's people (?), Khaldis, the lord, the Air-god,
 (and) the Sun-god the gods of Van;
(22). a-lu-śi-ni-ni ${ }^{5}$ al-śu-i-(si-)ui
of (the gods) of the inhabitants, the multitudinous, a-da-a-ba-di
among the assembly (?),
 may make dwell in triumph (?) the gods. 'The cavalry-quarters du-bi I destroyed.

$$
\text { (24). us-ta-di } \$ \mathrm{Ma} \text { ana-i-di }
$$

On approachiug the land of the Minni the people of the country

$$
\begin{array}{ll}
\text { tu-bi } & -=Y \prod \lll \ll-b i . \\
\text { I carried away. } & \text { The cities I burned. }
\end{array}
$$

1 So Layard.

- So Lajard.
${ }^{2}$ Comp. line 78.
6 Omitted by Layard.
(25). ku-dha-a-di pa-ri $\quad=$ =YY Hu-i-khi-ka-a

On departing out of the city of the tribe of Viklis A+1 Bu ${ }^{2}$-us-(tu-)e of the land of Bustus
(26). ha-se

$$
\hat{c}^{2}-h u-e-d i-a^{3}-n i
$$

is-ti-ni-ni
the men (and) women-folk belonging to them pa-ru-bi
I carried off;
(27). XMIIMMDCCCCLXXIX 13,979
of its soldiers
(28). a-da-ki za-as-gu-bi a-da-ki se-khi-ri a-gu-bi partly I slew, partly alive I took;
$\begin{array}{ll}\text { (29). CCCVIII } \\ 308 & \text { andrses } \\ \text { I carried off, }\end{array}$ VIIIMI ......
over 8000 (
oxen,
(30). III a-ti-bi IIMDXXXVIII
(and) five thousand five hundred and thirty-eight
$Y E Y($ su-se $) Y \lll$
sheep.
(31). YAr-gis-ti-s a-da-e -Y Khal-di-a is-ti-ni-(e) Argistis says: For the people of Khaldis these (32). i-ma-ni-da ar-(ni-)hu-si-ni-da su-śi-ni-mu ${ }^{4}$ za-du-(bi) the city, the citadel (and)itswalls I havebuilt.
(33). - Khal-di-ni us-ta-bi ma-śi-ni-e gis-su-ri-i-(e)

To the Khaldises I prayed to the powers mighty
(34). ka-ru-ni tMa-na-ni it -ni-e ka-ru-ni who have given of the Minni the land, who have given ※ E-ti-hu-ni the land of Etius

[^217](35). la-e-ku-hu-a-da-e

## Y Ar-gi-is-ti-i-ka-a-(i)

as a present to the family of Argistis ;
(36). - Y Khal-di-i ku-ru-ni $\rightarrow$ (Khal-di-)ni-ni to Khaldis the giver, to the children of Khaldis al-śu-i-si-(ni). the multitudinous.
(37). $Y$ Ar-gi-is-ti-s $Y$ Me-(nu-)a-khi-ni-e-s a-da-(e) Argistis the son of Menuas says:
(38). us-ta-di
+A Ma-na-i-di
On approaching the land of the Minni tu-bi
I carried away, the cities
(39). $-=$ YY Si-siliri-kha-di-ri-ni

The city of Sisirikhadiris
a-gu-nu-ni-(mu)
(and) its plunder
(40). gu-nu-sa-a for a spoil is-ti-ni-ni kha-hu-bi
ha-se

- =्|l 《< nu-si
the royal city

I acquired. The men
(and) women belonging to them I carried off.
(41). $\$ Ar-gis-ti-s a-da-e kha-su-bi $\$$ E-ti-hu-ni-(ni) Argistis says: I subjugated (?) the Etiuians.
(42). $-=Y$ Ar-di-ni-e-i as-ti-hu zi-ir-bi-la-(ni)

Of the city of Ardinis the magazines the.....
(43). i-ku-ka-ni-mu si-su-kha-ni its goods, the harness (and) the cavalryda du-(bi) quarters I destroyed.

[^218](44). khu-ti-a-di $\rightarrow$ Khal-di-e-di -II -di Among the king's people (?), Khaldis, the lord,
the Air-god (and) the Sun-god,
(45). $-Y$ Y<<<as-te $\left(\AA^{4}\right) \mathrm{Bi}-a-i-n a-a s-t e \quad a-l u-s ́ i-n i-(n i)$ the gods of Van ; of (the gods) of the inluabitants
(46). al-śu-i-si-ni ${ }^{1}$ a-da-a-ba-di
kha-si-al-me multitudinous among the assembly (?) may makedwell - Y Y in triumph (?) the gods.
(47). us-ta-di it E-ti-lıu-ni-i-e-di kha-a-(hu-bi)

On approaching the land of the Etiuians I conquered
(48). Y E-ri-a-khi ti-ni-e $\quad$ Ka ${ }^{2}-\operatorname{tar}^{3}$ belonging to the son of Erias the land, of Katar$z a-a-\theta$ zas the land.
(49). $k u^{4}$-dha-i-a-di pa-a-ri-e it Is-ki-gu-lu-(hu-e)

On departing out of the land of Iskigulus
(50). ha-se $<$ र L lu-(tu) si-hu-bi $\mathrm{Bi}-\mathrm{i}-\mathrm{a}-\mathrm{i}-$ the men (and) women I removed to the land of na-a-(i-di)
Biainas.
(51). Y Ar-gis-ti-(s a-)da-e - Y Khal-di-(ni hu-lu-usArgistis says: to the Khaldises I approached ta-i-bi) with offerings.
(52). us-ta-a-di it (Y) Hu-i-dha-ru ${ }^{5}$-(khi-)e-(ni-e) On approaching of the son of Vidharus
${ }^{1}$ Layard has $i$.

- Schulz has ma.
${ }^{2}$ Comp. xxxi. 11.
${ }^{5}$ So Layard.
$\$ 1$（e－ba－ni－e－di ${ }^{+1}$ ）－ni－a tu－bi $\quad-=Y Y Y \lll<$ the land，the people I carried away，the cities （钅－bi）
I burned．
．．．．．．（kha－）hu－bi－- YY A－me－gu（？）
．．．．．．I conquered the city of Amegu（？）
（55）．
．．．．．（（ H H－i－dha－ru－（khi）
．．．．．．belonging to the son of Vidharus
（56）．a－（gu－hu－）nu－ni
the plunder
FYYY（AX te－）ru－（hu－）bi a tablet I set up
（58）．pi－（e－）ni ．．．．hu ${ }^{2} \ldots$ ri $^{2}$
the name
（59）．〈〈nu ${ }^{3}$－śi....... me－e－i
the royal ．．．．．．．．of him
（60）．bi－du ${ }^{4}-n i(?) . . . . . . \quad d a-a$
the priests
（62）．．．．．．．．．．．．．．pi（？）－e－ni
（63）
（65）．（a－da－ki za－as－gu－bi a－）da－ki se－khi－ri（a－gu－bi） partly I slew，partly alive I took．

over 1200 horses， 29,504 （ $=$ Y $\langle$ pa－khi－ni）
oxen，
$\begin{array}{lll}{ }^{1} \text { So Layard．} & { }^{2} \text { So Layard．} & 3 \text { Layard has }\langle<\AA+\text { ．} \\ { }^{4} \text { So Layard．} & { }^{8} \text { So Layard．} & \end{array}$
(67). VI a-ti-(bi .....) )
(and) over 6 thousand sheep I carried off.
(68). ${ }^{\boldsymbol{Y}}$ Ar-gis-(ti-s a-da-)e $-\boldsymbol{H}^{*}$ Khal-di-a is-(ti-ni-e)

Argistis says: For the people of Khaldis these (69). i-na-ni-da (ar)-ni-hu-si-(ni-)da Y $\$ za-(du-bi) the city (and) citadel in one year I built.
(70). - Hhal-di-ni us-ta-bi ma-(śi-)ni-e gis-(su-ri-e) To the Khaldises I prayed, to the powers mighty,
(71). ka-ru-ni ( $\ddagger$ t Tar-i-)hu-ni it Ba-a-(ba-ni-e)
who have given the land of Tarius, the land of Babas
(72). ka-ru-ni (la-ku-)a-da Y Ar-gis-(ti-ka-i)
who have given as a present to the race of Argistis;
(73). - Khal-di-i (ku-ru-ni) -y Khal-di-ni-ni
to Khaldis
the giver, to the clildren of Khaldis al-śu-(i-si-ni) the multitudinous.
(74). ${ }^{2}$ Ar-gis-ti-(s) a-(da-)e us-ta-di $\ddagger$ Tar-i-(u-i-di) Argistis says: On approaching the land of Tarius
(70). XI EYYYY Y<<<-ri-a a-gu-nu-ni gu-nu-sa-(a
the inhabitants of 11 palaces (and) the plunder for a spoil kha-hu-bi) I acquired.
(:6). - K Khal-di e-ki (? ${ }^{1}$-ma (?)-ni is-ti-ni-i a-ru-(hu-bi) to Khaldis (offerings?) these I brought.
(77). $\boldsymbol{Y}$ Ar-gi-is-(ti-s) $\boldsymbol{Y}$ (Me-nu-)hu-a-khi-ni-e-s $\quad a^{2}$-(da-e) Argistis the son of Menuas says:
(78). - ${ }^{Y}$ Khal ${ }^{3}$-(di For Khaldis a sixtieth of the spoil, this portion of tu-khi e-ha ${ }^{5}$ (gu-nu-se *-e a-gu-bi) the captives (and) this plunder, doubly I took.
${ }^{1}$ So Layard.
${ }^{4}$ So Layard.
${ }^{2}$ So Layard.
${ }^{5}$ So Layard.

#  Buildings many (and) the palaces I burned; I (kha-ar-su-hu-bi) dug up 

(80). $\sim_{-1}^{-r y 3} \ldots$. . . ni ha-se lu-tu is-ti-ni-ni
the city of . . . . . The men (and) women belonging to thens
(si-i-hu-bi)
I removed.

$$
\begin{align*}
& \text {. . . . of the city Tarkhi . . das (?) }  \tag{81}\\
& \text { i-ku-ka-ni } \quad \text { (pa-ru-bi) } \\
& \text { the goods I carried off. }
\end{align*}
$$

2. Badi-nini may stand for baddi-nini, from baddis 'all.' This is confirmed by its association with suic. The root badu ' old ' gives no sense.
3. For abidadubi, see xlv. 9.
4. On khudhu, the acc. pl., see note on the name of the god Khudhuinis, v. 5. Except in this passage khudhu is always joined with tukhi (acc. pl. of tukhinis, agreeing with khudhu) 'what belongs to the captives.' The word nust therefore denote some kind of property belonging to captives taken in war, and the present passage seems to show that the property was in land. Khudhus would accordingly be 'a portion' or 'lot of land,' Greek $\kappa \lambda \hat{\eta}$ pos.
5. For siri, see xxi. 2. Here the word cannot mean 'tombs,' but rather 'corn-pits,' as in Kappadokian and modern Georgian.
6. Eha is indeclinable, see v. 25. As gunuse is the acc. pl. of gumusas, it is plain that nouns in $-a$ might form their plural accusatives in $-e$.
7. The meaning of kulmeye (acc. pl. of kulmeis) is pretty well determined by the context, but the word does not occur elsewhere.
[^219]Suras was part of the kingdom of Van, as we learn from xlviii. 6, li. iii. 9. Possibly it may be the mountainous land of Zihar, where Urśa took refuge when attacked by Sargon.
41. Khasu-bi belongs to the same root as the first part of the compound word khasi-alme. In kharkhar-su-bi su has a eausative sense, and it is possible that khasu is to be deeomposed into kiha + su 'make to possess.' The general sense of the word is clear, however difficult it may be to fix its exact meaning.
42. Astiu is the aec. pl. of astius, i.e. as-di-us. As ardis is the 'bringer' from the root ar, so as-ti(us) would be 'he' or ' that of the house' from as(is), with the loeative suffix used to denote agency, as in Khaldis. The word is written aste-u-1/n-ni in $\operatorname{sxx} .21$, with the adjectival ending in -mis, from which it follows that astiu is contraeted from astiuyu. Cp. asta, liv. 6, 10, 11.-Zirbilani is not found elsewhere.
49. Iskigulus is shown by xlvii. to have been the distriet in which Kalinsha is situated, a little to the east of Kars.
52. For the son of Vidharus, see xxx. '2.
71. For the land of Tarius, see xxx. 2.
75. From xiii. 1, it follows that the pronuneiation of the two ideographs EYYYY Y<<< here is chuluri(a). As asis is 'a house' or 'temple,' and asida 'a palace,' dhuhuris must be a special kiud of house, either a palace or a temple. The word is an adjective like giss-u-ris, e-u-ris, etc.
XLIV. (Schulz VIII.) The conclusion of the preceding text.

This inseription is engraved to the right of the entrance to the chambers.

1. (1) Ar-gi-is-ti-s

Argistis
2. Y Me-nu-hu-a-khi-ni-e-s son of Menuas
3. a-da-e a-lu-hu-s says: Whoever
4. ifni $工 Y Y Y$ EA ${ }^{1}$ tu-da-i-e this tablet carries away,
5. a-lu-s pi-tu-da-i-e
whoever the name carries away,
6. a-lu-s a-i-ni-e-i
whoever with earth
7. i-ni-da du-da-i-e here destroys,
8. ti ${ }^{2}$-hu-da-e hu-da-i tu-ri undoes on that rock (?),
9. a-lu-s hu-da-e-s
whoever that
10. ti ${ }^{3}$-hu-da-e i-e-s za-du-bi
undoes which I have done,
11. a-lu-s gi-e-i i-nu-ka-ni
whoever the images (and) the suite of chambers
12. e-śi-ni-ni
si-hu-da-i-e
belonging to the inscriptions removes,
13. a-hu-i-e-i ip-tu-da-i-e
with water floods;
14. tu-ri-ni-ni
for those belonging to the rock (?)

- Khal-di-i-s may Khaldis,

the Air-god (and) the Sun-god, the gods,

16. ma-a-ni ar-mu-zi-i
him, with a curse (?)

four times four, publicly the name
17. me-i ar-khi-hu-ru-da-a-ni
of him, the family
${ }^{1}$ Schulz has la.
${ }^{4}$ Layard has ${ }^{2}$ Schulz has -4 - ${ }^{3}$ Schulz has $2+$ - ${ }^{4}$. ${ }^{4}$.
18. me $^{1}-\mathrm{i}$ i-na-i-ni me-i na-ra-a
of him, the city of him to fire
19. a-hu-i-e hu-lu-da-e
(and) water give.
20. Ip + tu is literally 'inundation-bring,' the meaning of the whole compound being fixed by the context. In v. 4 the adjective is very appropriately an epithet of the Air-god.
21. Armuzi can scarcely signify anything else than 'with a curse,' the genitive being used in the same instrumental sense as in anyei or aviei above. For the termination compare gala-zi.

## XLV.

The following inscription was found by Sir A. H. Layard on a stone under the altar of the Church of Surk Sahak. It is here published for the first time. The beginning and end are unfortunately wanting, as well as the first and last characters of most of the lines.

1. (ku-)dha-i-a-di (pa-)ri-e it $\mathrm{Bi}-\mathrm{i}-(\mathrm{a})^{2}$

On departing out of the land Bias
2. ( $\uparrow$ Khu-) ${ }^{3}$ sa-ni (kha-hu-bi) ${ }^{4}$ us-ta-di it Di-di-ni-e the land of Khusas I conquered. On approaching of Didis
id -ni-(di)
the land


I set up a tablet in the country of the city of the Zuaians.

[^220]$\begin{array}{ll}\text { 6. AA As-ka-la-a-si-e-di } & \text { CV } \\ \text { Among the Askalaians } & 105\end{array}$
7. kha-ar-khar-su-bi CCCCLIII $-=$ YY Y $\lll<$ a-ma-(as-tu-bi) I dug up; 453 cities I plundered.
8. III t^e-ba-ni-e-da-e-di-ni śu-dhu-(ḳu-bi)

The people of the three countries I despoiled.
9.

The soldiers with fire I burnt.
10. \$e-ba-ni-hu-ki-e-di さ Ḳa-da-i-(ni du-bi)

In part of the country the land of Kadais I destroyed,
11. ${ }^{\text {A }}$ As-ka-la-si-e $=$ YY Sa-a-si-i-lu-hu-i-(ni tu-bi)
the Askalaians, (and) the city of Sasilus. I carried away
12. (X)MVMCLXXXI Fy -se IIMDCCXXXIY

$$
15,181
$$

children,
2,734

$$
\begin{aligned}
& \text { irp, (ha-se) } \\
& \text { men, }
\end{aligned}
$$

13. (X ?)MDCIV
$10(?), 604$
ct-hu-e-di-a-ni
IVMCCCCXXVI
 horses,
14. (X ?)MCCCCLXXVIII

$$
=Y\{\text { pa-khi-ni }
$$

$$
\begin{array}{cc}
10(?), 478 \\
\text { VII } \begin{array}{c}
\text { a-ti-bi IIIMDCC } \\
10,7(00)
\end{array} & \begin{array}{l}
\text { oxen, } \\
\text { sheep. }
\end{array} \\
\text { shese }
\end{array}
$$

15. (II) $\langle\rangle \lll<-h u-e-d i-a \quad$ du-bi $\quad \backslash$ Sa-as-ki $\ldots$ The people of the two kings I destroyed, of Saski ...
 the son of Adarakis (and) the son of Baltul Kabi
16.     - II - Y Y Governors (and) law-givers I set up. The king (and) Y Di-a-(hu-e-khi) the son of Diaves-belonging-to

17. a-da me-s Y Ar-gi-is-ti-e Y Di-a-hu-(khi-ni-s)

And he to Argistis, even the son of Diaus,
20. (a-)ru-ni XLI ma-na $\langle Y Y$ IY ot tu-a-i-e XXXVII brought 41 manehs of gold, 37 ma-na ( $\langle\mathrm{YY} \leqslant Y$ ) manehs of silver,
21. .. a-ti-bi ma-1a =̌YY
.. thousand manels of bronze, 1000 war$\begin{array}{ll}\text { Y<<< } & \text { CCC }=Y\{(p a-k h i-n i) ~ \\ \text { magazines, } & 300 \\ \text { oxen }\end{array}$
22. . .a-ti-bi Ey su-se a-da me-e-s e ${ }^{1}$-śi $a$-(gu-ni) (and) . . thousand sheep. And he (my) laws (took).
23. (i4) Di-a-hu-khi-ni-di te-ru-bi mu-mu-ni

In the land of the son of Diaus I set up impost ar-di-(se-e) (and) tribute:
24. ..ma-na $\langle Y Y y$ YH $\langle\lll$ tu-a-i-e XM ma-na
.. manehs of gold, 10,000 manehs (E_YYく<<) of bronze,

$$
{ }^{1} \text { Or } y a .
$$

 oxen， 100 wild－oxen， 300 sheep（and） 300 EYYYY－（（EYY Yく＜＜） war－magazines．
 The eavalry，the horses（and）the officers as－（gu－bi） I eaptured．
27．$(\rightarrow \mathcal{Y})$ Khal－di－ni us－ta－bi ma－śi－ni－e gis－su－ri－（i－e） To the Khaldises I prayed，to the powers mighty，
28．ka－ru－ni $\ddagger 4$ E－ti－hu－ni－ni $\quad 1 a^{3}-\mathrm{e}-\mathrm{k} u-(\mathrm{a}-\mathrm{da})$ who have given the land of the Etiuians as a present
29．（1）Ar－gi－is－ti－i－ka－i－y Khal－di－i ku－（ru－ni） to the fanily of Argistis；to Khaldis the giver，
30．（－⿻丷 ）Khal－di－ni gis－su－ri－i ku－ru－ni－y
to the Khaldises the mighty，the givers，to the
Khal－di－（ni－ni）
ehildren of Khaldis
31．（us）－ma－a－si－ni us－ta－a－bi $\quad$ Ar－gi－is－（ti－ni）
the graeious
I prayed，belonging to Argistis

32．（Y）Me－nu－hu－a－khi
the son of Menuas；
－＊Khal－（di－ni） the Khaldises．

33．（1）Ar－gi－is－ti－s
Argistis
a－da－e
says：the $\ldots$ ．....
34．ar－nu－i－a－da $\quad Y$
（and）fortresses of the son of Diaus I（oecupied）．
35. Kha-hu-bi ${ }^{4}$ Lu-sa-e ${ }^{4}$-ni-e ${ }^{4}$ Ka-tar-za-e ${ }^{4}$ (ni-c)

I conquered of Lusas the country, of Katarzas the country, 36. (Y) E-ri-a-khi ti-ni-e it Gu-lu-ta-a-khi-kha belonging to the son of Erias the country, of Guluta-khikhas ( $\ddagger$ ni-e)
the country,
37. (Y) Hu-i-dha-e-ru-khi-i-ni-e-i it e-ba-(ui-e) of the son of Vidhaerus the country.
38. (ku)-dhu-bi pa-ri \& A-bu-ni-i-e << \& Lu-sa-(e) I departed out of the land of Abunis; the king of Lusas
39. ( 1 -hu-h-)di-a du-bi $\ddagger$ I-ga-a-e
(and) the pcople of the land I destroyed. Of the land of Igas bu ${ }^{2}$-ra-as
the court
40. (-LY? ra-ni-)tsi ${ }^{3}$ du-bi e-śi me-s
(and) the chief of the pcople I destroyed. The laws he
Y Ar-gi-is-ti-e a-(gu-ni) for Argistis took.
3. For the city of Zuas in the neighbourhood of Melazgherd see $x x x .11$.
j. This tablet may be looked for in the neighbourhood of that of Menuas.
6. Askalasis is an adjective in -sis, from which Askaalasi-a 'people of the Askalians' is formed.
7. Narani seems here to be an adjective agreeing with tarsua, ' on fire.' A comparison with xxxviii. 45 shows that abidadubi. is the phonetic equivalent of $-b i$ ' I burned.'
11. For the city of Sasilus see xxx. 8.
13. We must remark the large number of horses captured in this region as compared with the numbers acquired in the eastern campaigns.

[^221]14. For the son of Paltul or Baltul see xxx. 25. Atibi must here have the sense of 'myriads.'
17. The collective eśi-a is, of course, 'men of the law.' See note on xix. 15.
18. For buras see line 39 , and xlix. 17 ; also the locative buranadi, l.6. The meaning of the word is pretty clear, but I cannot explain its form, which is that of an adverb like amas. But cf. gieis, v. 28. For the phrase haldubi mesini pi see xxx. 15.
20. It has already been noted that this passage gives us the Vannic term for 'gold.' Mana may be the ideographic representation of some native word. But since it had been borrowed by the Semites from the Accadians, and was again borrowed from them by Egyptians, Greeks, and Romans, it is more probable that in Van also the Assyrian name was introduced along with the Assyrian weight it represented.
23. For mumuni see xli. 15. For ardisis from ar 'to bring,' like the Greek фópos, see v. 2.
26. Nausis or narus is not elsewhere found, but since we find in xxx. 20, with aśi 'riders,' it is very possible that it was the Vannic word for 'horse.' In this case the final se will be a mistake for $Y \lll<$ as in the preceding line, unless we render 'belonging to the horses.'

For maśiniyani ' the staff officers,' see xxx. 23.
34. Far arnuya-da see xxxi. 4. We may perhaps compare sisi.. with sistini, xlix. 22. But it may represent the ideograph $\langle Y\rangle\langle Y-$ 'destruction.'
38. For Abunis or Abus and Igas see xxxvii. 12 and 11.

The adjective Abunis has here been turned into a substantive.
40. The meaning of the last sentence must be 'ho submitted to the laws of Argistis.'

## XLVI.

This inscription was also copied by Sir A. II. Layard in the same church of Surp Sahak, and is here published for the
first time. The stone on which it is engraved is built into the wall of the church. The text is greatly mutilated, the first line being entirely destroyed, as well as the concluding part of the inscription and the characters at the begimning and cad of each line.

1. (-y Khal-di-ni us-ta-bi) To the Khaldises I prayed,
2. (ma-śi-)ni-e gis-su-ri-(e) to the powers mighty,
3. (ka-)ru-ni Y Hu-dhu-bur-si-(ni)
who have given of Cdhubursis
4. (Y Di)-a ${ }^{1}$-hu-(e-khi)
the son of Diaus
it-ni-i-(e) the country,
5. (ka-)ru-ni Y ... ${ }^{2}$ nu-lu-a-(ni)
who have given ... nuluas
6. ( $\uparrow$. . ) a-zu-ni-(ni) la-ku-ni of the land of . . azus as a present
7. (Y) Ar-gi-is-ti-ka-a-(i)to the family of Argistis.
8. ( $->$ ) Khal-di-i ku-ru-hu-niTo Khaldis the giver,
9. ( $->$ ) Khal-di-ni (gis-su-)ri ${ }^{3}$ ku-ru-ni
to the Khaldises mighty the givers,
10. ( $->$ ) Khal-di-ni-ni al-śu-si-ni
to the children of Khaldis the multitudinous
11. (us-)ta-(bi Y Ar-gi-)is-ti-ni
I prayed, belonging to Argistis,
12. ( $\left(\mathrm{Me}-\mathrm{nu}-\mathrm{a}-\right.$ )khi $\quad$ Ar-gi-is-ti-s ${ }^{4}$the son of Menuas. Argistis
${ }^{1}$ Layard has $e . \quad{ }^{2}$ Layard has ${ }^{\text {学送- ( }}$ ( $a b$ or $d h a$ ), ${ }^{3}$ Layard has $b a$.

- Layard has khi.

13. (a-)da-e Y Di-i-a-hu-khi
says: of the son of Diaus
14. si-su-kha-ni du-ur-ba-ni the harness, the . . . . . . . ,
15. Fy-khu-ra-a-di-ni-da the camp,
16. ... di(? $)^{1}-\mathrm{e}-\mathrm{da} \quad \mathrm{du}-\mathrm{bi} \quad h u-d a-e-(s)$ the . . . . . . . I destroyed. That
17. (Y) Di-i-(a)-hu-khi-ni-e-(i) . . . of the son of Diaus
18. . . . ri-bi e-ri-da-bi(?) . . .
 slaves
19. . . . i ga ra ab khu bi ni e
20. . . . . - -y si . . . da (?) a ka i . . . . . . . . . . . . . . . . . . .
21. (1) Ar-mi-is-ti-i-s Argistis
22. (a-da-)e khu-ti-i-a-di says: among the king's people (?),
23.     - y Khal-di-e-di -II-di Khaldis the lord,
24. ( $-y-2$ ) Yf-di $-y$ Y-ni-di the Air-god (and) the Sun-god,
25. ( $-y$ Y $Y \lll$ as-te $\uparrow$ Bi-a-na-as-te the gods of Van;
[^222]```
27. (a-lu-)śsi \({ }^{1}-n i-n i \quad\) al-śsu-si-ni
of (the gods) of the inlabitants the multitudinous
```

4. See xxx. 12, 13.
$18,19,20,21$. The claracters in these lines are probably not to be depended on.

## XLVII.

The following inscription was discovered by J. Kästner in Kalinsha (8 versts from Alexandropol, the Gümri of the Turks), and has been published in the Mélanges asiatiques de l'Académie de S. Pétersbourg, iv. p. 675. Alexandropol is on the eastern bank of the Arpa Chai, north-west of Erivan, and due east of Kars.

1. $-y$ Khal-di-ni-ni To the children of Khaldis
2. YAr-gi-is-ti-s a-da-e

Argistis says:
3. kha-hu-bi

I have conquered
4. kha-hu-bi

I have conquered
al-śu-u-si-i-ni
the multitudinous
5. pa-ri out of
\& Is-ki-gu-lu-hu
the land of Iskigulus.

1. This inseription shows that the invocation to "the children of Khaldis" in the inscription at Van goes along with the words "Argistis says."
2. The campaign against Iskigulus is described in the great inscription of Van, xiiii. 47-49. Kalinsha is accordingly in the land of Etius, and not far from the site of the city of Irdanius. From the form Iskigulu we learn that the genitivedative of nouns in $-u$ s terminated in $u$ as well as in $u$. Mordtmann notices that on the opposite bank of the ArpaChai is a small fortress called Adshuk Kaleh.
[^223]
## Inscriptions of Sariduris II.

Sari-duris II. continued the wars of his father Argistis, as well as the fortifications of Van, but the revival of Assyrian power under Tiglath-Pileser II. suddenly checked his progress, and brought upon the kingdom of Van a series of reverses, which ended in the siege of Dhuspas (Dhuruspas) by the Assyrians in b.c. 735 and the devastation of the surrounding country. The reverses undergone by the Vannic people are illustrated by the want of inscriptions for about 80 years.

## XLVII. (Schulz XXXVIII. P. Nerses Sarkisian V.)

The inscription which follows is on a stone in the church of S. Peter (Surb Petros) at Van. It has been copied first by Schulz, then by Layard and lastly by Nerses Sarkisian. A squeeze of it has also been taken by Captain Clayton, but imperfectly. The characters are remarkably small, and the beginning of all the lines is lost, as well as the end of the text.

1. ( $->$ Khal-di-i-e ${ }^{1}$
e)-u-ri-i-e
To Khaldis the lord

this stone written Sariduris
2. ( ${ }^{2}$ Ar-gis-ti-)e-khi-ni-s ku-gu-ni son of Argistis has engraved,
3. ( - Y Khal-di-ni-ni) al-su-i-si-ni
to the children of Khaldis the multitudinous,
4. ( $Y \rightarrow \mathcal{Y}-Y Y<Y$-du-ri-ni) $\quad$ Y Ar-gis-ti-c-khi belonging to Śariduris the son of Argistis,
5. (<< al-śs-i-)ni $\ll+$ Su-ra-hu-e
the king of multitudes, king of the land of Suras
 king of Van, king of kings,
6. (a-lu-hu-si-e $-=Y Y$ Dhu-us-pa ${ }^{1}-\mathrm{a}-\theta-=Y Y$
7. $(Y-Y Y-Y Y<Y-d u-r i-s \quad a-d a)-0 \quad \mathrm{ti}^{2}$-e-ru-hu-bi

Sariduris says: I have established
10. (ar-di-se $-y$ - $y=$ )ni a-tsu ${ }^{3}$-si-nii-e
the offerings daily (and) monthly
11. . . . . . . . . 滃 $=$ ya-si ${ }^{4}-n a-t s i^{3}-e$
. . . . . . . . . the chief (?) of the
12. . . . . . . . i ur ${ }^{6}-p u^{7}-d a-i-n i$
. . . . . . . . the shrine
13. \# Bi-a-)i-na-hu-e -y -i-e
.... belonging to Van of the god.
14. $(\boldsymbol{Y}-\boldsymbol{Y}-Y<Y-d u-r i)-i-s$ a-dilee $a-l u-s$ Śariduris says: whoever
15. the . . . . . . . . . all (?) destroys,
16. (pi-tu-da-)e a-lu-s i-ni
(or) removes the name; whoever this tablet

17. (tu-da-e) \begin{tabular}{rl}
a-lu <br>
res <br>
whoever

$\quad$

a-i-ni-e-i <br>
with earth
\end{tabular}

18. (i-ni-da du-da-)e ti-hu-da-i-e
here destroys, undoes
19. (hu-da-i tu-ri) a-lu-s hu-da-e-s on this stone(?), whoever that
20. (ti-hu-da-e i-e-s) ${ }^{10}$ za-du-bi tu-ri-ni-ni undoes which I have made; for what belongs to the stone (?)

[^224] may Khaldis, the Air-god (and) the Sun-god, the gods, ma-ni
him

with a curse four times four, publicly, the name
23. (me-i ar-khi-hu-ru-da-)a-ni me-i i-na-i-ni of him, the family of him, the city
24. (me-i na-ra-a a)-hu-i-e hu-lu-da-e of him to fire (and) water consign.
25. $(Y-\mathcal{Y}-\boldsymbol{Y}\langle\langle$ - -du-ri-s) $\quad Y$ Ar-gis-ti-e-khi-ni-s

Śariduris
the son of Argistis
26. (a-da-e - ${ }^{\text {H }}$ Khal)-di²-is CXX tu-khi a-ru-ni says: Khaldis 120 prisoners has brought:
27. (na-kha-di
on enslaving (them), of the . . . . 20 prisoners
28. (i-ku-ka-a-ni-mu a-gu-)nu-hu-ni khu-dhu tu-khi
(and) their goods, the spoil (and) portions of the captives,
29. (e-ha $三$ Y pa-khi-ni) e-ha $=$ su-hu-se-e viz. these oxen, these sheep,
30. . . . . . . . . . . . . a-si-ni i-ku-ka-ni-mu
belonging to . . . . . . . their property,

I took . . . . . . . . . . . . . . the horsemen.
6. For the land of Suras see xliii. 18.
7. In li. iii. 10, instead of $\langle\langle\backslash \lll<$, we have khu-la-lut-e or khu-te-lu-e, from which it follows that khulais or khutis signifies 'a prince ' or 'regulus.'

[^225]10. See v. 2. Atsusinie is the accusative plural of an adjective atsu-sis, from atsu-s, agreeing with ardise.
27. Nukhu-di (li. iii. 4) is the noun corresponding to nakhubi (as kullha-di to kudlut-bi), which is elsewhere used only of the capture of boys, women, slaves, and cattle (see xxxi. 12 ; xlix. $9,23,26 ; 1.24$ ). It is replaced by parubi in xlix. 19. Dhanieśi is an adjective in śis, and the determinative shows that some class of persons is intended. But no further specification is possible.

## XLIX. (Schulz XII. Sarkisian VI.)

This inscription, which has been copied by Schulz, Layard, Sarkisian, and Robert, is engraved on the face of the rock near the gate of Tabriz, on the way from Van to the lake. It is on the same pyramidal piece of rock (near the KhazanéKapussi) as the three inscriptions of Menuas (No. xx.), above which it stands. The portion of the rock of Van on which it is found is of lower height than the citadel fortified by Argistis, and is separated from the latter by a depression. Following in his father's fontsteps, Śarduris II., as we learn from this inscription, continued the fortifications of his capital, inclosing this portion of the rock also within its walls.

1.     - Y Khaldini us-ta-bi maliśsi-ni-e gis-su ${ }^{2}$-ri-e To the Khaldises I prayed, to the powers mighty, ka-ru-ni \$4a-na ${ }^{3}$-ni who have given of the Minni

$$
\begin{aligned}
& \text { 2. A-ni-e la-ku-ni } \quad \text { as a present to the family of Śariduris } \\
& \text { the lands } \quad \begin{array}{l}
Y Y<Y-d u-r i-k a-i \\
\text { Ar-gis-ti-khi-ni-e }
\end{array} \text { Khal-di ku-ru-ni } \\
& \text { the son of Argistis; to Khaldis the giver, }
\end{aligned}
$$

[^226]3．－K Khal－di－ni－ni（gis－）su－ri－e ${ }^{1} \mathrm{ku}^{2}$－ru－ni to the children of Khaldis，the mighty，the givers
us－ta－bi $Y \rightarrow Y-Y Y<Y$－du－ri－i－ni
I prayed，belonging to Sariduris
4．$Y$ Ar－gis－ti－khi the son of Argistis．

$$
Y->Y(-Y Y<Y) \text {-du-ri-(s) a-da-e }
$$

us－ta－a－di it Ba－bi－lu－ni－e
On approaching of the Babiluians
5．\＆t e－ba－ni－e－di kha－（hu－bi）\＆Ba－bi－lu－hu \＆e－ba－a－ni the land，I conquered of Babilus the land， ku－dha－a－di pa－ri
on departing out of
6．\＆Ba－ru－a－ta－i－ni－a $\rightarrow$（Khal－）di－ni－ni
the land of Baruatainias．To the children of Khaldis
al－śu－i－si－ni $\quad Y \rightarrow Y--Y Y<Y$－du－ri－s
the multitudinous Sariduris
7．a－da－e kha－hu－bi
III EYYYY EY－Yくく says：I have conquered
palaces．
a－gu－nu－ni－da ma－nu－da gu－nu－sa－a
The place of plunder，eacl site，for a spoil
kha－hu－bi
I conquered：

EYYYY EYM－Y＜＜＜＜khar－khar－su－bi－＝YY Y＜＜＜
The palaces I dug up．The cities
差－bi tu－ni－a tu－bi
I burned．The people of the country I carried away．

[^227][^228]9. ha-se $Y \lll<$ ( ${ }^{\text {r }}$ - lu-tu ${ }^{\prime} \lll<$ is-ti-ni-niThe men (and)women belonging to them
pa-ru-bi VIIIMCXXXV F-
I carried off; ..... 8,135
cliildren
na-khu-bi
I enslaved


slaves:
2,500
pa-ru-bi ${ }^{2}$
I carried off
11. XMIIMCCC $=$ Y pa-khi-ni XXXM(II)MC (and) 12,300 oxen (and) 32,100
FIV su-se i-na ${ }^{3}-n i \quad$ < ${ }^{4}-e \quad n u-n a^{5}$-a-bi sheep. Of the city the kings I attacked. me-i-a-da On its site
 the cavalry captive

* e-ba-ni as-hu ${ }^{8}-l a-a-b i$
the country I . . . . . . .

13. i-ku-ka-ni-mu ta-li ${ }^{9}-n i$ us-ta-di
its goods ...... On approaching
$\$ 10$ E-ti-hu-ni-e-di $\ddagger$ Da-ki-hu-e-
the country of the Etiuians, of the land of Dakis
1 So all the copies. But analogy seems to require $m u$ 'their.'
${ }^{2}$ So Layard; Schulz omits.
3 So Layard and Robert; Schulz has ma.

* So Layard; Schulz has nu. Perhaps we should read <<nu.
${ }^{5}$ So Layard; Schulz has ma.
6 So Layard; Schulz and Robert omit.
7 So Schulz; Layard has tu (?).
8 So all the copies, but we should probably read $g a$.
9 So Layard.
10 Schulz has se.

14. e-di-a + E-di-a ${ }^{1}-n i \quad=Y Y \ll$ nu-śi
the people, the land of Edias, the royal city
A-bi-a-ni-i-ni a-gu-nu-ni ma-nu
belonging to Abianis, the plunder each gu-nu-sa-a kha-hu-bi for a spoil I acquired.
15. $-=Y Y$ Ir ${ }^{2}$-hu-i-a-ni $-=Y Y\left\langle\left\langle\right.\right.$ nu-śi $Y$ Ir ${ }^{3}$-ku-a-i-ni-i The city of Irhuyas, the royal city belonging to Irkuais a-gu-nu-ni ma-a-nu (and) the plunder individually
16. gu-nu-sa-a kha-hu-bi (-ッYY) Ir $^{4}-m a^{5}-a-n i \quad-y Y \ll$ for a spoil I acquired. The city of Irmas the royal (nu-)śi $Y$ Hu-e-ni ${ }^{6}$-da-i-ni a-gu-nu-hu-ni
city of Venidais (and) the plunder
17. ma-nu gu-nu-sa-a kha-hu-bi <<-ni $=$-YY individually for a spoil I acquired. The king of the
Bu-i-ni-al-khi $\quad$ Iry-bu-ra-as tu-bi
inhabitants of Buis (and) court I carried away. me-si-ni pi-i
His nane
18. ha-al-du-bi me-e-s $Y-\mathcal{Y}-Y Y\langle Y$-du-ri-e a-ri-e-dha I changed. He of Śariduris became. i-11a-ni-da IV $=$ YYYY EY-Y<<<< The site of the city, 4 palaces,
19. \& e-ba-(a-)ni-a-tsi-e kha ${ }^{\text {- }}$-hu-bi ha-se $Y \lll<$ the chief inhabitints I conqucred. The men (and)

$$
\begin{aligned}
& \hat{L} \text { lu-tu } Y \lll \text { is-ti-ni-ni } \quad \text { pa-ru-bi } \\
& \text { women belonging to them I carricd off. }
\end{aligned}
$$

[^229] IVM =-ry-Y<<< gu-nu-si-ni-i 4000 slaves
21. pa-ru-hu-bi VIIIMDXXV $=1\langle$ pa-khi-ni pa-ru-bi I carried off; 8,525 oxen I carried oft

> XMVIIDI Ely su-se $Y \lll$ pa-ru-bi (and) 18,000 sheep. I carried off
22. i-(ku-)ka-a-ni-mu ${ }^{1}$ si-is-ti-ni ${ }^{2}$ us-ta-di its goods (and) furniture (?). On approaching

| ti Ur-me-hu-e-e-di-a | $X I=Y Y Y Y$ |
| :--- | :--- |
| the people of Urmes | 11 |
| palaces |  |
| kha-hu-bi |  |
| I conquerel, |  |

23. Khar-khar-su-bi laa-se lu-tu is-ti-ni-ni I dug up. The men (and) women belonging to them $\begin{array}{ll}\text { pa-ru-hu-bi } I M C \text {-se } Y \lll<r & \text { na-khu-bi } \\ \text { I carried off; } 1100 & \text { children } \\ I \text { enslaved, }\end{array}$
24. VIMDC 6,600 women, 2000
slaves,
IIMDXXXVIII =Y pa-klii-ni
2,233
oxen
25. VIIIM $Y$ IYY su-se $Y \lll Y-Y-Y Y<Y$-du-ri-s (and) 8000 sheep. Sariduris
Y Ar-gis-ti-khi-ni-s a-da-e a-da yrathi the son of Argistis says: the sum of the captives

[^230]26. III \& ${ }^{4}$ e-ba-na ${ }^{1}$
$Y$ tit $a-d u-b i \quad$ ㅇ․
belonging to 3 eountries in one year I summed up. In all,

27. XMIIM $Y$ Y 12,000 of their slaves I carried off;

28. XX ${ }^{4}$ MIIIMCCCXXXV $=Y\left\langle\mathrm{pa}^{5}-\mathrm{khi}-n i\right.$ 23,335 oxen (and)
LMVIIIMC su-se pa-ru-bi 58,100 sheep I carried off.

- Y Khal-di-i-a is-ti-ni-e

For the people of Khaldis these
29. i-na-ni-da ar-ni-hu-si-ni-da
the city (and) citadel in one year

$$
Y->\underset{\text { Sariduris }}{-Y Y<Y \text {-du-ri-s }} \underset{\text { the son of Argistis }}{\text { Ar-gis-ti-khi-ni-s }}
$$

za-du-ni
has built.
4. It is elear that Babilus cannot be Babylonia, as Dr. Hineks supposed. From line 1 it would appear that the eampaign began in the north-western part of the land of the Minni, and extended from thence in a north-westerly direetion as far as Etius. Babilus must therefore have been in the neighbourhood of the modern Khoi, and is probably to be identified with the Babyrsa of Strabo, near Artaxata, where the treasures of Tigranes were kept.

[^231]8. The meaning of tume-mi is settled by the context and parallel passages in the Assyrian inscriptions.
11. I have taken meiadd as represcuting me-ya-da 'place of the people of it,' like armu-yu-dla. But it may be two words, mei ' of it ' and adte either ' number' or 'and.'
12. If we read asise the word must be an adjective in sis, and mean literally 'those belonging to the riders.' But se may be due to miscopying, or may form the first syllable of the following word. Parfuse, an adjective in -us-, being a compound of par and tu, must signify 'captive.' Ashulabi cannot be right. Reading asgalabi, we might explain the word as a compound of as (as in asgubi) and gala, which we have in gala-zi. 'The word must have something to do with the idea of plundering.
13. Tulini does not occur elsewhere.-It is only in the ease of suffixes like edia, which were felt to be separable, that a word is carried from one line into another. See xxx. 21, 22.
14. It seems pretty certain that we ouglit to read $=-\boldsymbol{Y Y}$ instead of 4 before Elliani. Mamu, being a pronoun, does not take the affix -ui, which is accordingly appended to the preceding substantive.
15. Since Schulz and Layard are certainly wrong in reading $n i$ in Venidaini, it would seem probable that we ought to read mi instead of $i r$ with the two other copyists in Irlueyani, Irkuani, and Irmaini. At the same time Robert's copy is an exceedingly bad one, while Sarkisian's is inferior to that of Layard.
i8. I.e. he became the subject of Sariduris. The context leaves no doubt as to the meaning of aricdla. Dha here takes the place of $d a$, like śudluukubi by the side of śuduluubi.
22. Sisti-ni here takes the place of sisu-kha-ni (xliii. 43), and must mean something similar. Since $t i$ stands for di after $s$, the root is sis, which may be identical with the first part of sisu-kila-ni.

If Robert's reading is right in xxxvii. 25, the country of Urmes would be named there also. See xli. 5.
26. Ebani here shows that the suffix -na(s) differs from
-ni(s) in denoting not only 'belonging to,' but specifically 'people belonging to.' $A d u-b i$ is plainly the verbal form answering to the indeclinable ada, and must mean 'I summed up' or 'counted.' The number 12,735 children is correct (8135 line 9, 3500 line 20, and 1100 line 23). Instead of 46,600 women, we ought to liave 42,100 ( 25,000 line 10 , 10,500 line 20,6600 line 24). It is difficult to say where the mistake lies.
27. The number 12,000 slaves is correct ( 6000 line 10 , 4000 line 20, and 2000 line 24). The only horses carried away were the 2500 from Babilus (line 10). Instead of 23,335 oxen we ought to liave 23,363 (12,300 line 11, 8525 line 21, and 2538 line 24). The copyists have probably mistaken the numbers in the summations. The 58,100 sheep are composed of 32,100 line $11,18,000$ line 21 , and 8000 line 25. The summation shows that the missing figures in line 11 must be IIM.

## L.

This inscription was discovered and copied by Captain von Mühlbach on a rock between lsoglú and Kúmurhan, eastward of Malatiyeh, and on the east side of the Euphrates. It was published in the "Monatsberichte über die Verhandlungen der Gesellschaft für Erdkunde zu Berlin," i. 1840, pp. 70-75; and again (by Grotefend) in the "Original Papers read before the Syro-Egyptian Society of London," i. 1, 1845, pp. 125 s?. A revised copy of the inscription is much to be desired.

1. $\rightarrow$ Khal-di-i-ni us-ta-bi, ma-sit-ni gis-su-ri- $\theta^{1}$

To the Khaldises I prayed, to the powers niglity, ka-ru-ni
who lave given
2. YKhi-la-ru-a-da-ni Khila-ruadas

Sa-khu-khi
the son of Sakhus the king (and)
$-=Y Y \mathrm{Me}-\mathrm{li}^{2}$-dha-al-khi-e of the inhabitants of Malatiyels

[^232]3. \&-uil-e la-e-ku-ni $\quad Y-y-Y Y<Y-d u-r i-k a-i$ the country as a present to the family of Sariduris

Y Ar-gis-ti-khi-ni
the son of Argistis.
4. - Y Khal-di-i ku-ru-ni $\rightarrow$ Y Klal-di-ni gis-su-ri-i To Khaldis the giver, to the Khaldises the mighty, ku-ru-ni
the givers,
5. us-ta-bi $Y \rightarrow Y=Y Y\langle Y$-du-ri-ni $Y$ Ar-gis-ti-e-khi I prayed, belonging to Śariduris the son of Argistis.
6. $Y \rightarrow Y-Y Y<Y$-du-ri-s a-da-a al-khi Sariduris
bu ${ }^{2}$-ra-ua-di says: the inlabitants tu $\mathrm{i}^{3}$ is khii ma-nu ${ }^{4}$ in the district of the court I carried away (?) . . . each
7. hu-i a-i-ni-e-i << is-ti-ni ${ }^{+15}$ Ka-luu-ri khu-ti-a-di and of the land king this the Kauian. Among the king's people (?)
S. - Y Klaal-di-e-di-e - II-di $\rightarrow$ - $\boldsymbol{Y}$

Khaldis
the lord, the Air-god
$\rightarrow$ y $\quad$ Y-ni-di $\quad$ y Y<<<-as-te ${ }^{6}$
(and) the Sun-god, the gods
9. it Bi-a-i-na-as-te a-lu-sí-ni-ni
of Van: of (the gods) of the inhabitants,
al-śu-i-si-ni
the multitudinous,
10. $a^{7}$-da-a-ba-di
among the assembly (?) may make
$\rightarrow Y$ Y $Y \lll \quad$ IV tu-me-ni-e
the gods, (and) 4 villages

[^233]11. ka-a-di $\quad$ a-śi $Y \lll-t s i^{1}$
in battle (?), the chief of the cavalry
$=-Y Y$ Dhu-me-is-ki-ni-ka-i of the clan of the city of Dhumeskis
12. i-ku-ka-ni tu-me-ni-e us-ta-di (and) the goods belonging to the villages. On approaching
t-ni-di an-da-ni
the country the boys (?)
13. ka-la-ha-ni ha-al-du-bi ku-dhu-bi pa-ri . . . . . . . . I removed. I departed out of
\& Kar-ni-si-e (. . .) the land of Kar-nisi,- ${ }^{2}$
 the land of Babas (and) the maidens of Malatiyeh.
ku-dhu-bi pa-ri
I departed out of
15. T Mu-sa-ni-e $\rightleftharpoons$-Y Za-ap-sa
the land of Musanis, (and) of the city of Zapsas
a-śu-ni XIV =YYYY EY~4 ${ }^{4} \mathrm{C} \quad-$ YY Y
the neighbourhood: 14 palaces, 100 cities,
16. su-śi-ni tu-me-ni as-gu-bi $=Y Y Y Y$ EYー Y<<< walled fortresses, (and) villages I took. The palaces
khar-kha-ar-su-bi
I dug up;
17. $-\approx Y Y Y \lll \ll=-b i \quad \mathrm{~L}$ gis-su-ri gu-nu-si-ni sa-tuthe cities I burned; 50 mighty men as slaves I took hu-bi as hostages.
${ }^{1}$ Grotefend has $l u$.
${ }^{2}$ A line seems to have been omitted. $\quad$ The copy has da.
${ }^{4}$ The copyist has probably omitted $Y \lll<$ here.
18. gn-nu-si-ni-ni bi-di-a-di-ba-ad $Y \lll<l n-l u-b i$

Belonging to the slaves the
19. $-=$ YY Ni-śi-i-ni $-=Y \mid\langle\langle$ nu-sí $Y$ Khi-la-ru-a-da-a-i The city of Niśis the royal city of Khila-ruadas
20. a-gu-nu-ni ma-nu gu-nu-sa-a kha-hn-bi ni-ri-bi (and) the plunder severally for a spoil I acquired. The persons lia-se 1- lu-tu of the men (and) women
21. is-ti-ni si-i-hu-bi $Y \rightarrow Y-Y Y\langle Y$-du-ri-s a-da
belonging to it I removed. Sariduris says: is-ti-di
In this
22. ul-khu-di $=$ YY Me-li-dha-a-ni ka-ab-ka-ru-li-ni campaign the city of Malatiyeh after being approached nu-na-a-bi I attacked
23. Y Khi-la-ru-a-da-ni ka-hu-ki-e śu-lu-us-ti-i-bi (and) Khila-ruadas with arms (?). I imposed
24. sa-tu-a-da ku-ri-e-da śi-lu ${ }^{2}-a-d i \quad n a^{3}-k u-r i$ hostages (and) tribute. On the receipt (?) of the gifts (?) na-khu-bi
I carried away
25. $\langle Y Y Y\langle Y Y$ \&Y bi-bu-di-id gu-si-i it Bi-a-nagold, silver, (and) ressels (?) of bronze (?). To the i-di a-gu-bi
land of Van I took
26. ma-a-nii ha-al-tu-bi me-e-si-ni pi-e-i IX $=$ YYY EYhim. I changed his name. The people of $Y \lll<-e-d i$ 9 palaces

[^234]27. śu-du-ku-bi a-bi-da-du-bi ti e-ba-na-ki-di

I despoiled; I burnt in part of the country
28. $-=$ YY Kha-a-za-a-ni

-     - YY Hu-hu-ra-a ${ }^{1}$-khi
$-=Y Y$ the city of Khazas, of the citizens of Vuras the Dhu-me-is-ki city of Dhumeskis,

29. $-=Y Y$ Ha-a-rat ${ }^{2}-n i=-Y Y$ Ma-ni-nu-hu-i $-\mp Y$ A-ru-si the city of Harat, of the city Maninus (and) the city Arusis,
30. $-=$ YY Ku-ul-bi ${ }^{3}$-tar-ri-ni the city of Kulbitarris, of inscriptions),
 the city of the Tikulraitaians, (and) the city of Meluyas.
31.     - K Khal-di-ni-ni

To the children of Khaldis $Y \rightarrow-Y Y<Y$-du-ri-ni belonging to Sariduris
33. $\boldsymbol{Y}$ Ar-gis-ti-khi〈 $\langle=$ MYY << althe son of Argistis, the powerful king, the king of śu-i-ni $\langle<\quad$ Bi-a-i-na-hu-e multitudes, the king of Van,
34. a-lu-sic $\quad-=Y Y$ Dhu-us-pa-a $-\approx Y Y Y-\not Y-Y Y<Y-$ inhabiting the city of Dluspas,

$$
\begin{array}{rr}
\text { du-ri-s } & a-d a-\theta \\
& \text { says: }
\end{array}
$$

${ }^{1}$ Omitted by Grotefend.
${ }^{2}$ Probably an error for $n i$. The character rat elsewhere occurs only in Schulz's copy of v. 14-52, where Layard more correctly has ar; and I have. therefore, not ventured to include it in the Vannie syllabary.
${ }^{3}$ Omitted by Grotefend.
4 The copy has $\Rightarrow-Y$ an, but we do not find this character used elsewhere phonetically in Vannic.
${ }^{5}$ The copy has $5 Y$.
6 The copy has im.

3i. a-lu-s i-ni tu-u-da-e a-lu-s whoever this tablet takes away, whoever pi-tu-da-i-e removes the name,
36. a-lu-s se-ri du-da-e a-lu-s a-i-ni whoever the characters destroys, whoever with earth i-ni-da du-da
here destroys,

| 37. ti ${ }^{1}$-lu ${ }^{2}{ }^{2}{ }^{2}-\mathrm{e}$ | hu-da ${ }^{3}-\mathrm{i}$ | tu ${ }^{4}$-ri-e |
| :--- | :---: | :--- |
| after undoing (them) | on this | rock (?); |
| tu-ri-ni-ni |  |  |
| for what belongs to the rock (?) |  |  |

38. -y Khal-di-s may Khaldis,

- Y $Y \lll-s$ ma-a-ni
the gods, him

39. ar-di (?)-ni (?)-ni pi-e-ni me-i, ar-khi-hu-ru-da-a-ni publicly the name of him, the family
40. me-i i-na-ni me-i na-ra a-hu-i-e hu-lu-da-e of him, the city of him to fire (and) water consign.
41. For Khila-ruadas and Melidhas (Malatiyeh) see p. 403.
42. Buranadi is comected with buras as Memuakhi-na-di (xxix. 3) with Menuakhinis. It is formed from the stem by the aid of the collective-adjectival suffix $n a$ and the locative suffix di.
43. Kuhuri is the accusative of an adjective like giss-u-vis, e-l-ris, etc. The word must therefore mean 'the Kauian.' Now on the Black Obelisk (133) Shalmaneser names the tribe which is called Kue elsewhere in the Assyrian inscriptions Kauians. They were associated with the people of Malatiyeh, the Hittites of Carchemish, and the neighbouring populations.

[^235]11. Ka-di is the locative of kas, the stem of which is found in ka-ukie of line 23 , which see. Here it can hardly mean anything else than 'battle.' Cf. xxx. 13. For the simple Dumeskis see line 28.

## 13. Kalaha-ni may possibly signify ' young.'

Kar-nisi 'the fortress of men' is an Assyrian name. Several of the cities in this part of the world, after their capture by the Assyrians, had received Assyrian titles. Thus Pitru or Pethor, at the junction of the Sajur and Euphrates, was called "the fortress of Shalmaneser."-A line must have been omitted here by the copyist, since (1) pari is followed by a dative, not an acc. like Babani, and (2) there is no sense in the passage as it stands. Capt. von Mühlbach may however have omitted the word $t u-b i$ (or $h a-a l-d u-b i$ ) in the next line. We might then render: 'I carried away (or removed) the maidens of the city of Malatiyel, belonging to the city of Babas.'
18. Bidi-adibad must be some kind of property belonging to the hostages, and the ideograph after it shows that the final d marks the plural as in armanidad. The first part of the compound claims affinity with bidus 'priest,' 'minister,' the second part with adayabadi (see xxxvii. 4). Perhaps the word signifies 'duties' or 'offices,' lubi being 'I fixed.' At all events lubi must have some such meaning as 'establishing,' since it occurs in labkarn-hubi 'I approached' (? 'approachmade').
20. Nivibi is in apposition with hase lutu. The plırase seems to mean that the inhabitants were carried away and put to death. Sarduris can hardly have robbed the graves.
22. The meaning of ulkhu-di is clear from the context, but the word is only found here. Kabkarl-li-mi is an interesting form, the accusatival $-m i$, which unites it with the preceding word, being attached to the suffix $-l i$. See note on $v .31$.
23. See ka-di line 11. Ka-ukie is formed like cbami-uki (xxxix. 25). Considering ko-di (line 11), 'with fighting' wonld perhaps be the nearest English equivalent of the word. Bibudid must be a plural like bidi-adibad above. The analogy
of xlv. 21, 24, as well as of the Assyrian inscriptions, would lead us to expect a mention of bronze after 'gold ' and 'silver,' and gusi is a genitive ease governed by bibubid. TiglathPileser I. reccived vessels of bronze aud iron as tribute from Fomagênê, and Assir-natsir-pal received from this district gold, silver, lead, and bronze.
26. We must notiec the form hal-tu-bi; see p. 427.
28. Dhumeskis may be the Tuskha (in Nirbu) of the $A \mathrm{~s}$ syrian texts. =YYY-e-se-e and Ti-kul-ul-ra-i-ta-se-e are accusatives plural of adjectives in si-like $A$ skala-sie-di and $A$ skaldm-si-e xlv. G, 11, or Zun-si-a-di xlv. 5. From line 11 it would appear that Dhumeskis was oue of the principal cities of the country.
39. It is most unfortunate that this word is so badly copied, as it gives us the reading of the name of the Sun-god. The copy has $\left\langle Y-Y_{Y}\langle \rangle \rightarrow Y=Y\right.$ YY $\overline{-Y /-}$. The last character but one seems certainly to be $n$, which explains the $n i$ which sometimes appears as the phonetic complement of $\rightarrow$ - AY, and the second character seems most maturally to be meant for di. Mordtmann reads it kia. Ardinis would bo 'belonging to the offerer,' a curious name for the Sun.

## LI. (Schulz XL. and XLI.)

The following inscription is engraved on the Karatash rocks on the northern side of the Lake of Van, about five miles north-east of Ardish or Arjish. The rocks are also called Ilan-tash or 'serpent-rock,' and the inseription consists of three tablets eight feet above the level of the ground, and at a little distance from each other. The second tablet or column has been so much injured that no characters are any longer decipherable upon it. This is the more regrettable, since, as will be seen, it would have given us the Vannic words for ideas like 'protecting' or 'glorifying.' The first tablet or column has been copied by Schulz only, the third by Schulz and Dr. Humphry Sandwith.

Col. I.

1.     - K Khal-di-i-ni-ni al-śu-i-si-ni

To the children of Khaldis the multitudinous
2. $Y \rightarrow-||\gamma| \gamma$-du-ri-s $Y$ Ar-gis-ti-khi-ni-s

Sariduris the son of Argistis
3. i-ni $\quad$ Y-du-u te-ru-hu-ni $Y \sim->Y-Y Y<Y$-du-ri-s these monuments has set up. Śariduris
4. a-da-e $\quad$ a-da-i-sí $\quad$ i-ku-ka-ni-e-di-ni says: The king $\left\{\begin{array}{c}\text { summing up } \\ \text { assembling }\end{array}\right\}$ the men of property
5. sa-hu-e na-nu-da me-i a-se-e-i
belonging there, the place of . . . of him, for the honse pi-ur-ta-a-ni he has remembered (?);
6. Kha-i-di-a-ni
the workmen (and) setters-up belonging to
ri-ni-i
Śariduris,
7. $\mathrm{ti}^{1}-\mathrm{i}-\mathrm{ni} \quad Y-2 Y-Y Y<Y$-du-ri-ni-i $=Y$ hu-duhe has called belonging to Sariduris. For the da-e-i
place of the monument
8. YY $_{Y} \quad Y$ Se-klıa-hu-da-e $\mathcal{Z} Y Y=-n i$ hu-ru-da-e the son of Sekhaudas the food of the household $\Rightarrow$ Ey-ni-ni for the gifts
9. Y Hu-i-du-s śu-ni ${ }^{2}$ (?) $Y>y=Y Y<Y-d u-r i-s$
Vidus has provided (?). Śariduris
a-da-e
says:
${ }^{2}$ Schulz has $p a$.
10. YSe-kha-hu-da-e tu-ri-ni-ni

Of Sekhaudas for what belongs to the rock (?)
$\rightarrow$ Khal-di-s
may Khaldis,

the Air-god (and) the Sull-god, the gods,

- $\boldsymbol{Y}$-Y-ni pi-i-ni
publicly the name (glorify).
Col. II. destroyed.

Col. III.

1. $\rightarrow$ K Khal-di-i-nii-ni al-śu-hu-i-si-ni

To the children of Khaldis the multitudinous
2. $Y \rightarrow Y-Y Y<Y$-du-ri-s $Y$ Ar-gi-is-ti-khi'-ni-s Sariduris the son of Argistis
3. a-da-e i-hu Hhal-di-is CXX tu-khi
says thus: Khaldis 120 prisoners
a-ru-ni has brought.
4. na-kha-a-di <y-dha ${ }^{2}-n i-(e-) s ́ i-i \ll t u-k h i-n i$ On carrying away, of the . . . . . . . . . 20 prisoners
5. i-ku-ka-ni-mu te-ru-(ni) . . . . . . . . . . . . . . . . e (and) their goods he set up
6. $Y \rightarrow Y-Y Y<Y$-du-ri-e-i
of Śariduris
7. - Y Khal-di-i-ni-ni (al-śu-i-si-ni)

To the children of Khaldis the multitudinous
8. $Y-Y-Y Y<Y$-du-ri-ni (Y Ar-gis-ti-)khi belonging to Sariduris the son of Argistis,

[^236]9. $\langle\langle=Y Y Y\rangle \quad\langle\langle\quad$ al-śu-i-ni the powerful king, the king of multitudes, ( $\left\langle<{ }^{\star+} \mathrm{Su}\right.$ - ) ra-hu-e king of the land of Suras,
 king of the land of Van, king of kings,
11. a-lu-hu-śi-e $\rightleftharpoons=Y$ YY Dhu-us-pa-e $-=Y Y$ inhabiting the city of Dhuspas.
Col. i.- 3 . Line 7 shows that $d u$ is the phonetic complement of ulu. The determinative and context fix the meaning of the word. We have already come across a root $d x$ 'to establish'; see notes on xxxix. 1 and xl. 72. Ini must here be plural.
4. Since aduisisi is the accusative (like $\left\langle\left\langle n u-\right.\right.$ sin $^{i}$ ), the nominative to the verb must be Vidus at the end of the whole paragraph. With adaisi compare ada and adubi in xlix. 25, 26. Adriši is from ada 'summation,' as musí from mu(s). Participial adjectives in -si followed by a case seem to be indeclinable. Ikukaniedi-ni is formed from ikukani (with adjectival -nis) by the suffix of agency $d i$ (as in Khaldis, ardis, etc.).
5. Sa-ve is formed from sa' there' (as in sada) by the help of the suffix -ve. The stem namu is not found elsewhere.

Pi-urta-ni is a compound of pi 'name' and urta of unknown signification. The word seems to be a verb here, the third person in -ani corresponding to a first person like ustubi.
6. Khai-di-a-ni is analyzable into the stem khai, and the suffixes di (of agency) and a (collective). With the stem kihui- compare khai-tu xxxii. 4, khai-ti-ni xvi. 4. The sense seems clear. Teri-khinis is formed from the root teriu by the suffix of derivation kihinis.
7. In utuduci we have the full form of the root, which is expressed in line 3 by the phonetic complement $d u$ only.
S. The last word may also mean 'for the givers,' literally 'for those (things) belonging to giving.' Su-ni (?) seems to be comected with sui. If the latter word really means 'all,' sumi would be literally 'he has fully supplied.' S'u, howcver, may be an idcograph simnifying 'to increase.'

The sense of the paragraph will be this: "Vidus, the son of Sekhaudas, has remembered (?) the king, when assembling (or taxing) the men of property belonging to this neighbourhood, and his place of . . . for a house; the worknen and artizans of Śarichuris he has called the men of Śarduris. For the place of the monument he has procided (?) the food of the honsehold by way of gift.'

Col. iii.-10. For lihula-ve or khute-re see the parallel passage xlviii. 7. If Dr. Sandwith's reading lilute-ve is the right one, an explanation appears to be aftorded of kluti-a-di; see note on xxxvii. 3 .

## Inscriptions of Rúsas.

## LII.

After an interval of nearly a century, we again meet with Vannic inscriptions on the bronze shields found in the ruins of the palace or temple of Tuprak Kilissa, near the village of Karatash, the ancient Managerd or "town of Mcnuas." Karatash is not far fiom Vastan, south of Van. Sir A. H. Layard purchased at Constantinople a number of bronze objects, now in the British Museum, which had come from this place. Among them are small winged bulls with human heads, the model of a palace, and the fragments of a shield. The inscription which runs round the shield shows it to have belonged to Rusas, son of Erimenas, the contemporary of Assur-bani-pal.
. e-di (?)-ni ${ }^{1}$-y Khal-di-ni-ni al-śu-i-si-ni
To the children of Khaldis the multitudinous

[^237][^238]Y E-ri-me-na-khi $\langle\langle=| Y Y Y \quad\langle\langle\quad$ a-lu-si the son of Erimenas, the powerful king, the king inhabiting ( $-=$ YY Dhu-us-pa-e $=-=Y$ )
the city of Dhuspas
ni - Khal-di-ni-ni al-śsu-i-si-ni

To the children of Khaldis the multitudinous

| $Y$ Ru-śa-a-ni | Ar-gis-ti-(khi) |
| :--- | :--- |
| belonging to Ruśas | the grandson of Argistis |

## 

the powerful king,
the city of Dluspas.
The fact that the suffix -khinis indicates descent or derivation only generally is brought into relief by this inseription, where Argistikhi must signify 'the grandson of Argistis.' Argistis II. was a contemporary of Sargon and Sennacherib, which would exactly snit the relationship of Rusas to him. Erimenas was probably the king to whose court the murderers of Sennacherib fled. The name is a compound of Eri and menas, which we have in Memuas. Eri $(s)$ seems to have been a name of the Sun-god. Ruśas is probably the name which the Assyrians turned into Urśas. Assur-bani-pal, however, writes it Ru-śa-a (Smith's Assurbanipal, p. 147), and says of him: "Ruśa, king of Urardha, heard of the power of Assur my lord, and the fear of my sovereignty overwhelmed him, and he sent his chief men to the midst of Arbela to ask for my friendship." The successor of this Rusas II. must have been Śarduris III., since, aceording to Assur-bani-pal (Smith's Assurb. p. 115), "Śar-dur, king of Urardhn, whose royal fathers had sent terms of brotherhood to my fathers, Śardur, again, heard of the might (and) the deeds which the great gods established for me, and like a son to his father sent acknowledgment of lordship; and he according to this tenour sent thus: Peace to the king my lord! Reverently (and)

DESTRUCTION OF THE TEMPLE OF KHALDIA AT MUTSATSIR by ASSYRIAN soldieks; from a bas-relief in Sargon'S Pal, ace at Khorsabad (botta is, Pl. Ifr. Two off tire sacked shiblds arif stili. hanging on the walls, others are heing removed by the maliters.
submissively his abundant gifts he eaused to be brought to my presence." This was after the final conquest of Elam, towards the end of Assur-bani-pal's reign (? 13.c. 645), whereas the embassy of Ruśas had arrived at Nineveh several years before, just after the overthrow of the Elamite prince Temmman.

In the summer of 1880 Mr . Rassam exearated on the site of the temple, and discovered two other bronze shields, whieh are ornamented with rows of lions between lines of waves. The inseription upon one of them is, unfortunately, for the most part destroyed, but the other is fairly perfect. The latter reads as follows :

Y $\rightarrow$ (Khal-di gis-su-hu-ri-e $\quad$ YY-e i-ni (ul-gu-si-ni)
For Khaldis the mighty, the lord this shield

> Y Ru-śa-a-s
> Ruśas

Y E-ri-me-na-khi-ni-s us-tu-ni ul-gu-si-ya-ni-e-di-ni the son of Erimenas has dedieated (and) the shield-bearers;

- K Khal-di-ni-ni al-śu-i-si-ni YRu-śa-a-se [ni] for the children of Khaldis the multitudinons belonging to

Ruśas | E-ri-me-na-a-khi |
| :--- |
| son of Erimenas |

|  | << | (a-lu-sis) | - =YY Dhu-us-pa |
| :---: | :---: | :---: | :---: |

the strong ling, the king inhabiting the city of Dhuspas.
For ulgusis 'a shield' see v. $2 t-67$. The meaning is fixed by ulgusi-ya-ne-di-ni, which is formed from ulgusis by the suffixes $-a,-n i$, $-d i$ (of ageney), and $-n i$ (the aceusative suffix). The word is strictly analogons to ebani-a-tse-di-ni (xxx. 28), where the suffix -tse takes the place of the simple adjectival -ne. It is literally 'the corps of shield-bearers,' and must refer to the body of priests who carried the saered shields in the temples. From this it would appear that the building disinterred by Mr. Rassam was a temple, not a palace. The temple of Klialdia represented on the bas-relief of Khorsabad
(see p. 356 sup.) has the shields suspended on either side of the entrance.

The signification of $u s-t u-n i$ is fixed by the context. It is a compound of $t u$ 'to bring' and $u s$, which seems to have the sense of 'near' (as in us-tabi). The existence of this verb accounts for the vowel of the stem usta; usta- is 'to approach,' 'pray,' ustu 'to make approach,' 'consecrate.'

The upright wedge at the beginning of the inscription is used, as it often is on the Assyrian tablets, to introduce a paragraph. It was from this usage that the oblique wedge came to be employed in Persian cuneiform as a word-divider; in the earlier Persian texts it stands before and not after a word.

The engraver has by mistake written Ruśase instead of Ruśani, which is correctly written on the Layard shield.

The inscription on the latter shield is evidently the same as that on the shield just given ; the other shield found by Mr. Rassam seems to bear a similar inscription, though but little of it is legible. It may be restored as follows :-
(Y) - Khal-di-e - YY-(e) i-ni (ul-gu-si-ni) YRu-śa-(a-s For Khaldis the lord this shield Ruśas

Y E-ri-me-na-khi-)i-ni-s
the son of Erimenas
(us-tu-)ni (ul-gu-si-ya)-
has dedicated (and) the shield-
ni-e-di-ni
bearers

Fragments of a kneeling bull and rosettes in bronze, found on the same spot, also bear portions of an inscription. As these, however, have not yet been cleaned, the inscription can be only partially made out:-
 To Khaldis the lord this ......... Ruśas

Y E-)ri-me-na-a-(khi-ni-s

$$
\langle\langle E Y Y Y \nmid)
$$ the son of Erimenas,

the minglity king .

$$
\begin{aligned}
& (\langle) \text { t Khi . . . . . . . . . . . . }=\text { - YY-ni-e } \\
& \text { king of the land of Khi. . . . . . cities }
\end{aligned}
$$

( - Y Khal-di-ni-ni al)-śu-i-(si-ni
'To the children of Khaldis the multitudinous
Y Ru-śa-a-ni $\quad$ Y E-ri-me-na-a-)khi 〈< belonging to Rusas the son of Erimenas, the
= HY y
\ll al-(śsu-i)-ni
a-lu-śi
mighty king, king of multitudes, inhabiting
$-=\|$ Dhu-us-pa-a-e $-=Y Y$
the city of Dhuspas.
The equivalence of $-Y$ and euris here is ummistakable.

## Inscriptions of undetermined Date.

## LIII.

This inscription was discovered by the Vartabed Mesrop Sembatiants or Sempadian on a height on the south-western bank of Lake Erivan, aud near the village of Adam-khan or Atam-khan, north of Eranos, the ancient I'sag. His copy, however (in the Armenian Journal of Moskow, "Le Nouvelliste russe," 1863), was too inaccurate for use. A photograph of the inscription has since been published by the "Gesellschaft der Liebhaber der Archäologie des Kaukasus," Tiflis, 18.5 (pl. 3), which leaves nothing to be desired. Sarduris, son of Rapis, may lave been the king of Van mentioned in the ammals of Assur-bani-pal as a successor of Ruśas, but he may also have been a local ruler in the neighbourhood of Lake Erivan, whose subjects spoke the same language as the people of Van. If so, we should have an interesting proof of the extension of the Vannic language on the north, within the territory of the modern Georgians. The latter view is supported by the dialectal peculiarities to which attention will be drawn.

$$
\text { 1. }->\text { Khal-di-ni-ni us-ma-si-ni }
$$

To the children of Khaldis, the gracious,
2. Y Śr-du-ri-s Y Ra-pi-is-khi-ni-s Sarduris the son of Rapis
3. a-da $-=$ YY Tu-da-hu-ni $-=Y$ < $\langle\langle$ nu-śi says: the city of Tudaus, the royal city
4. $\boldsymbol{Y}$ Tsi-ma-da-bi-i $Y$ Tsi-e-ri-khi-ni-i
of Tsimadabis the son of Tsieris,
5. gu-nu-sa kha-u-bi YTsi-ma-da-bi-ni for a spoil I acquired. Tsimadabis
6. $\langle<\quad=Y Y Y Y \lll<-r a-n i$
the king, the men (and) women of him
7. ku-dhu-bi pa-ri it U-du-ri-e-ti-ni

I carried away out of the land of Udurietis.
2. The spelling Śar-du-ri-s with not only shows that the Assyrian inscriptions have transcribed the Vannic name of the Asiatic goddess correctly, but also that the character in question had in Vannic the value of sar and not of khir. From the fact that the name of Sarduris is here written phonetically instead of ideographically as in the texts of the Vannic kings, and also that we have Rapis-khinis instead of Rapi-khinis, which would have been the proper Vannic form, I conclude that the inscription belongs to some northern ruler, and not to a king of Biainis. No name like Rapis is found at Van.
3. Tudaus would have been near Atam-khan, perhaps on the site of Eranos.
6. The suffix here can hardly have any other meaning than that of the suffixed 3 rd personal pronoun. We may regard it as representing the mei of the Vannic texts, and constituting a peculiarity of the northern dialcet, to which this inscription belongs.
7. Instead of the genitive-dative after pari, as at Van, we have the accusative-another peculiarity of the dialect of the inscription.

## LIV.

This fragment was found near the ruins of Armavir on the Araxes, and has been published by Mordtmann in the Z. D. M. G. axxi. 2, 3 (1877). The beginning and end are lost, as well as the commencement of every line. The mention of Hazas in the first line seems to show that the inscription belongs to Argistis, who conquered a Hazas (xl. 73).

1. . (Y Ar-)gis-ti-khi-na

Y Ha-za-ni
. . . . of the land of the son of Argistis, belonging to
Hazas the lands
2. . . . . . a-ru-hu-ni su-hu ${ }^{1}$-ba-ra-ni
. . . . . . he brought the . . . . . . . .
3. . . . . . da-u-a-ni bar-za-ni zi-el-di
. . . . . . . . . . . . the . . . . of the . . . .
4..... $\operatorname{cin}^{2}$ - khu-su the flesh (and) belonging to the tablet the śi-ni inscription
5. . . . . . e e-gu-du-da-a me-da hu-da-ni
. . . . . . the monument . . . . . there that
6. ...... a-da-bi-di as-ta nu-la-da
. . . among the assembly (?) the palace the courtiers' quarters (?)
7. . . . . . i-ni te-ir-du-da-ni e-śi-i
. . . . . this place of the setting up of the law

> S.
hu-e
tar-a-i-hu-khi
ma-
...... belonging to, the offspring of the mighty, in nu-da-e each place

[^239]9. ...... . khi-e-hu-ni
............... the tribe of Urbis
10. . . . . . . da a-da-bi-di
. . . . . . . . among the assembly (?)
as-ta nu-la-
a-da-e
courtiers' quarters (?)
11. . . . . . . da a-da-bi-di
as-ta nu-la-
. . . . . . . . among the assembly (?) the palace, the a-da
courtiers' quarters (?)
12. . . . . . ( (Y- Se-)lu-i-ni-e-hu-ni YNu-nu-da-e
the Seluinian of Nunudas
13. . . . . . . śi-ni ur-di-du Ser- Se-lu-i-ni-e the Seluinian.

1. . . gistikhina is plainly for Argistikhina, like Menuakhina.di xxix. B. 3. Argistis must have assigned the government of the province of Georgia on the Araxes to his son.
2. As the inscription relates to the erection of a shrine and the gift of flesh to the grods, subarani may mean 'sacrifices.'
3. For barza-ni zildi see xix. 9 , where it is defined as 'the eating-place of a chapel.'
4. . . egudu-da is plainly compounded with udu 'monu-ment.'-Me-da is the localizing case of mes.
5. For adabidi see xxxvii. 4. The next word is evidently for as(i)da 'a palace'; cp. astiu xliii. 42. Nu-la-da seems derived from $n u(s)$ by the suffix -la (as in burga-la), which stands to $-l i$ as $-n a$ to $-n i$.
6. For teir-du-da-ui see v. 2 (34).
7. We have already met with the country of Taraius in xxx. 2. See also xliii. 71, 74. The word is a derivative from tarais 'powerful,' the vowel $u$ being that which appears in arni-u-sinida, ebani-u-kas, etc.
8. From line 12 it appears that . . .khieuni is the accusative of some tribal name.

For Urbi-kas see axxviii. 6.

12．From the next line we see that $-u$－in Seluinie－$u-n i$ is an adjectival suffix，as in line 9 ．

## LV．

This inscription was found by the Vartabed Mesrop Sem－ batiants or Sempadian at the foot of the hill of Otsapert，near tho lower village of Ktanots or Alichalu，to tho south－east of Lake Erivan．Unfortunately his copy，published in Le Nourelliste russe 37 a，for 1862，is so hopelessly bad that hardly a word in it is recognizable．Apparently，some Vannic king records the despatch of prisoners and materials from the neighbourhood of Erivan to Van，for the erection of a palace there．The following is all that I can make ont of tho text：－

1．－＊Khal－di－ni ${ }^{1}-n i \quad$ us－ta－（bi ma）－śi－ni－e gis－su－ri－e To the children of Khaldis I prayed；to the powers mighty， 2. ka－ru－ni－e $\ddagger$ Dha（？）－e－ba who have given the country of Dhaeba
3．－F Khal－di－ni－e us－ta－bi
To the Khaldises I prayed
4．．．．．．．．．．．．．§ $\mathrm{Hu}-\mathrm{e}-\mathrm{da}$
．．．．．．．．．．．．．the country
j．\＃A Ar．．．．．．．．ni
the country of Ar
6．※
the country of Si
7．さ丸．．．．．．．．．．．．．．．．2a－i－ni ざ Zu－a－i－ni－e ざ．．．．． the country of ．．．azis，the land of Zuais，the land of a－i－ni \＆A－ma．．．．．
．．．．the land of Ama．．．．
 the land of $\operatorname{Ir}$ ．．．．．．．the land of Palais， 6 pieces of tu－a－i－ni
gold
${ }^{1}$ This should probably be $i$ ．
9. . . . . a-i-ni . . . . na ni hu ni gu si (?) e (?) a-i-ni al-zi-
. . . . . . . . . . . . . . . . . . . . . . . . bronze (?)
ra-ni
10. du-ru-a-i-ni me-la-a-i-ni . . . . . . . i-ni
. . . . . . . . the
11. . . . . a a-i-ni . . . za-a-i-ni it E-ri-a-i-ni it A-za-
. . . . . . . . . . . the gate, the land of Eriais, the land ru-ni-ni of Azarunis
12. ..... i-ni $\left\{\begin{array}{c}\text { si ri } \\ a r\end{array}\right\}$-i sa-ni ap-ti-ni
. . . . . . . . . . . . . . belonging there which was called me-la-i-ni a ni ti Ba-ba-ni-a the people of Babanis
 the givers (?),

423 men
su-śi-ni-ni $Y \lll<$ as-gu-bi
belonging to the walled fortresses I took.
14. ha-se $\quad<$ lu-tu $Y \lll<\mathrm{Bi}-\mathrm{a}-\mathrm{i}-\mathrm{na}$-di a-gu-bi The men (and) women to Van I carried, me-si-ni sa-a-da belonging to him. There
15. ma-a-ni si-di-is-tu-hu-da $i^{1}$ hupi $Y \lll<$ him a restoration
16.

$$
i^{2} \text { e-ba-a-ni }
$$

the country
17. . . . i-ni $=Y Y Y Y$ Ey- si-di-is-tu-bi .... this palace I restored

19.

the country
A comparison of the first line as well as of line 14 with 1 . might seem to show that the inseription belongs to S.arduris 11 . Line 8 makes it clear that a number of objects are described as sent from the Araxes to Van. Duruaini and melaini, lines 10 and 12, appear pretty certain readings. In line 9 the word gu-sie-a-i-ni ' of bronze' seems to occur. A photograph or squeeze of the inscription is mucl to be desired.

## LVI. Inscription of Mexuas at Kelishin.

As already mentioned (p. 386) Sir H. Rawlinson found a Cuneiform inscription of forty-one lines engraved on a column of store in the pass of Kelishin, 12,000 feet above the level of the sea, and not far from Usluneï.' It lies to the west of

[^240]Tash Tepéh (near Chillik, on the Tatáu), to the south-west of Lake Urumiyeh, and bears witness to the campaigns of the Vannic kings in the lands of the Minni and of Bustus. Schulz was the original discoverer of the inscription, but his copy of it was lost after his murder at Julamerk. In 1852 a cast of it was taken by Khanykow, which was destroyed on its way home, and a squeeze in 1853, of the subsequent fate of which I have not been able to learn anything. Another cast of it, however, was made by Dr. Blau, and sent by him through Dr. Rödiger, to the library of the German Oriental Society at Halle. It was broken on its way to Europe, but the fragments have been preserved, and Prof. August Müller has been kind enough to have a cast of them made for me and forwarded to England. Unfortunately the beginning and end of each line is destroyed, and the four pieces into which the cast was broken have been wrongly fitted together, so that not only are four lines obliterated by being fused together, but it is impossible to tell where the inscription begins or in what order the fragments come. The difficulty of translation is further increased by the occurrence of new words, the absence of the usual formulæ, and the loss and obliteration of many characters by the wear of the stone. It proves to be a record of Menuas, who will thus have preceded his son Argistis in forcing his way to the south of Lake Urumiyeh. The pass in which the column is erected appears to be called a gate.

## Fragment I.

1. 
2. .... (mu)-hu-mu-ni-ni (Y) Me-nu-(a-s a-da-e)
the wealthy. Menuas says:
3. . . . ra-za-hu-ni $\lll$ it $\mathrm{Bi}-\mathrm{a}$...
. . . . razaus the king of the country of Bia . . .

. . . the city of Tosp, the city of Menuas
4. ( Is-pu)-hu-i-ni-khe ya-ra-(a)-ni
the son of Ispuinis who has dedicated

工平 $\langle\boldsymbol{y}$ i-(ni this stone

- K Khal-di)
to Khaldis,

6. ...é-ya-ni
※ I -nu-hu-a-si
........ for the people of the country of Inus te(-ru-ni)
who has appointed
7. . . $\ddagger$ (?) $\mathrm{ku}(?)-\mathrm{lu}-\mathrm{a}-\mathrm{i} Y$ Is-pu-hu-i-(ni-i-e $)$
country of Kuluas (?) for Ispuinis

. . . the city of the fort of Nipur . . .
8. . . . li ni-ri-bi ga-śsu-li-ua . . .
. . . . the dead
9. . . . e (?) Y<<<
. . . the characters (?)
=YYYY स्y ni . . a a(?)-ni
of the tablet $\qquad$
=ry-na khu(? $)^{2}$. . . belonging to the pass . . .
10. . . . ni . ya-a-e za-du-(ni) he has made
11. ...- Al-di-na

a-ru-ni
... of the land of the god Aldis the gate he brought $\rightarrow$ Al-(di-e) to the god Aldis
12. . . ri-i ul-gu-si-ya-ni . .
. . . . . of the gate the shield-bearers . . .

. . . . . . the dead (?)
[^241]Fragment II.

1. (Me-ru-a-s) a-da Al-di-is Te-ra-a-i . . (Menuas) says: The god Aldis the city of Terais.
2. ....i $\boldsymbol{i}=$ YY Ar-di-ni $\rightarrow$ - Khal-di-e ..
. . . . . the city of Ardis to the god Khaldis
3. . . . . . . gu-ru-khu kha-i-ni
kha(-u-nii)
. . . . . . . . . . . . . as a possession (?) he took
4. . . li-i-hu i-hu - - Khal-di.ka....
....... . Thus for the race of Khaldis
5. . . . di-ni-di nu-na-a-li $\quad Y$ Is-pu-hu-(i-ni-e)
(the city of Ardinis) after attacking for Ispuinis
6. $(Y-y-Y Y\langle Y)$ 気 -e-khe $Y$ Me-nu-a $Y$ Is-puthe son of Śarduris
(and) Menuas the son
hu-i-(ni-khe)
of Ispuinis
7. . . . . . . . . MC hu . . . . - - $=$ YY-se . . . .

1100
cities
Fragment III.

1. . . . ni ni (?) ni ni ri (?)
the country
2. . . . - Khal-di-na-ni
$=4$
. . . belonging to the land of Khaldis the gate (pass) kha-hu-li-i-e . . . after conquering

| 3. . . da-ni | a-lu-s | a-i-ni-e | i-hu-da-(i-e) |
| :---: | :---: | :---: | :---: |
| . . . . . | whoever | with earth | undoes |

4. ... (e-)śi-e-ya me du-da-i-e ...
...governors his destroys ...
${ }^{1}$ Perhap's us. The upper portion of this line is cut off in the cast.

5．㳂 $y<y-i-n i$ the inhabitant of the city ．．．

6．．．．li－ni
$=-y Y$ Ar－di－ni
（the city of ．．）lis，the city of Ardis，
－－YY Kha－na－li－（ni）．．．．
the city of Khanalis ．．．

т．．．．- Khal－di－ni
．．．to the Klialdi＇s

S．．．．深 ${ }^{1}$ al－li－i－e me ku－i－gu－（ni）．．．
．．．．the records his he has inscribed ．．．
9．．．．（ニーラY）${ }^{2}$ bi－ku－hu－ra－e－di ku－lu－di ．．．
．．．belonging to the city of Bikuras in the district ．．．
10．（a－lu－s）Fyyy tiy i－ni mu－hu ${ }^{3}$－i－du－li－i－e．．．
Whoever tablet this after spoiling（？）．．．
11．．．．a－lu－s ip－tu－li－i－e a－lu－s a．．．．
．．．whoever after flooding；whoever ．．．．．．．
12.
．．．al－li－i－e pi－i－hu－li－i－e ．．．
．．．the records after removing the nanie ．．．
13．．．．i Khal－di－is - Y 2 YH－s－y
．．．may Khaldis，Teisbas（and）the
AY－s $\quad(->Y$ Y＜＜＜－s）
Sun－god，the gods，
14．（ma－a）－ni ar－mu－zi $-=Y$ Bi－ku－ra－e－di
him with a curse，of the city of Bikuras
ku（－lu－di）
in the district
${ }^{1}$ Must be $i$ ．
${ }^{2}$ Or perhaps ri．
${ }^{3}$ There is a fracture here，and the two characters may be te－ru．

Fragment IV.

1. ......... VIIIMXX

8,020 lambs...
2. . . . . . . II gu-ru-khe ( $(\lll)$ XMIIMCCCC
....... 2 ............... 12,400
3. ... ( $-=Y Y$ ) kha-at-ka-na-ni i-hu - Y
. . . belonging to the city of Khatkanas. Thus for the Al-di-ka-(a-i) race of Aldis
4. ( $-=$ YY Ar-)di-ni-di nu-na-bi $\quad$ Is-pu-hu-i-(ni-e)
(the city) of Ardinis I attacked for Ispuinis
5. $(Y-Y$ - $-Y<\rangle)$-dur-e-khe $\langle<=Y Y Y \geqslant \ll$
son of Śarduris
A Na -ra-a(-hu-e) of Nahri
6. (a-lu-śi-) i $\uparrow \uparrow$ Su-ra-e $\quad$-lu-śi $\quad=-Y Y$
inhabiting the land of Suras, inhabiting the city
Dhu-us-(pa-e) of Dhuspas.

the city of Nipur
8. . . . i-ni-la-a-ni $=$ - YY Hu-si ...
. . . . . . . . . . . . the city of Husi
Fragment III. ought plainly to come at the end of the inscription, though the last two or three lines, containing the final words of the imprecatory formula, have been lost. Fragment IV. probably precedes Fragment II., Fragnient I. forming the commencement of the text, of which, however, the first few lines are gone. About three claracters at the end of each line and about as many at the begiming of each are also gone.

[^242]The inscription was engraved while Ispuinis and his son Menuas were reigning together. It is clear that it must have been after his retum from the expedition to the south-east which it commemorates that Menuas caused the inscription of Meher-Kapussi to be made. The names of many of the territorial deities mentioned in the latter are explained by the inscription of Kelishin. We learn that Ardinis or Ardis (v. 14), Khatkanas or A tkanas (v. 19), and Inuas (v. 23) were all places in the mountains of liowandiz, whose gods were adopted by the victor, and were consequently not native Vannic divinities at all. The land of Aais (v. 23) was probably in the same part of the world as Inuas, with which it is conjoined, and we know that the land of Babas (v. 20) was so. ${ }^{1}$ IIuisis (v. 16) secms to be the same city as the one named in Fragment IV. 8. In fact, the inscription of Meher-Kapussi turns out to be a record of the conquests of Menuas in the Kurdish mountains, the gods of Van and of the conquered districts being mixed together in it. The mention of Naras, too, instead of Biainas, further slows that the inscription before us belongs to the period which immediately succeeded the reign of Sarduris I. and the introduction of the Assyrian syllabary into Van (see note on Fragment IV. 5).

Linguistically, the inscription is of considerable interest. While we have Khatkanas instead of Atkanas, the guttural is more than once omitted in the name of the supreme god of Van, which is written Al-di-s (comp. aldi-nie v. 29). This suggests that the scribe or engraver spoke a slightly different dialect from that current in the capital, and the suggestion is confirmed by the remarkable fact that $t$ between vowels is twice omitted, in iuda for tiuda (Frag. III. 3), and piulie for pitulie (Frag. III. 12). ${ }^{2}$ This goes far to show that the Assyrian Bitanu is really the Vannic Biana(s), the dental of the Assyrian texts representing either an older pronunciation of the name or the pronunciation of the more correct speakers, and that the Aryan Armenian omission of a dental between

[^243]two vowels is a continuation of a habit of their Alarodian predecessors. Possibly the tendency to drop the dental was most marked on the eastern side of the Vannic kingdom, and to this part of it the engraver of the Kelishin inscription may have belonged.

As compared with the later Vannic inscriptions the Kelishin text offers many peculiarities. It contains but few of the formulæ we are accustomed to meet with. On the other liand, it uses to express the second syllable of the name of Sarduris, as in the Assyrian inscriptions of Sarduris I. and Inscription iii. of Ispuinis. At Meher-Kapussi we already find du-ri. As at Meher-Kapussi, the compound ideograph -1 is also employed. Notice, further, the forms of the ideograph for 'city' and the character kihe, as well as me for mei 'mine,' the omission of $Y$ before the name of Menuas (Frag. I. 2, 4), and the postposition of the demonstrative ini (Frag. III. 10).

Frag. I. 2. We must evidently supply mu. With mumu-ni-ni compare mumu-ni 'tribute' (xlv. 23 ; see also vi.A. 2) and mитиiya-bi (xli. 15). If the latter means 'to make wealthy' or 'fill with spoil,' mumunini will be either the ace. s. or the dat. pl. of mumu-nis 'wealthy.' The root, in an unreduplicated form, seems to occur again in mui-du-lie Frag. III. 10.
3. The construction here seems to be: ' . . . razaus king of the land of Bias (?) he (i.e. Menuas) took out of (tuni parie) the city of Tosp which belongs to Menuas son of Ispuinis.' The land of Bias mentioned in xxxvii. 8 lay on the northwest side of Lake Van.
5. For yarani see xxxiii. 13.
6. . . . cya-ni is probably esieya-ni 'officers,' as in Frag. III. 4. Inua-si will be the acc. s. of the adj. in -si(s) agreeing with esieyani, the translation of the line being: 'officers over the pcople of Inus he cstablished.'
8. The city of Nipur or Nibur is mentioned again in Fras. IV. 7. It is, of comrse, different from the country of Nibur in the Assyrian texts, which lay among the highlands of Mons Masius.

9．For gaśu－li or gaśl－li－na I can suggest no meaning．As the lost word at the begimning of the line ends with $-l i$ ，it is best to read gaśu－li．

10．We should perhaps read $E=Y Y Y$ AY－ni－dlu－a－ni for armanidu－ni＇tablet．＇The word＇gate＇here evidently means －the pass＇in which the inscription was set up．

12．Aldis for Khaldis is very noticeable．Perhaps we should read Aldis，＇Aldis brought．＇

13．For the sacred shield－bearers see lii．
Frag．II．2．For the city of Ardis or Ardinis see v． 14.
3．Gurukhu must be the accusative pl．from gurukinns．In Frag．1V． 2 we have guruike，like gunuse by the side of ebana． Here it must denote some object，apparently an animal， which was offered to the gods．See note on the line．

Inaini is the accusative sing．of the stem which we find in khanbi＇I took＇or＇conquered．＇

4．Just as the people of Van are called Khaldias＇the people of Khaldis，＇so here they are called Khaldi－kas＇the race of Khaldis，＇implying a belief that they were descended from the god．Here is plainly the origin of the name of Khaldxi given by the Greeks to the Khalybes．

Frag．III．3．For the loss of the dental in iudaie see above． The proof that the dental is lost is furnished by piulie in line 12．See also xxxi． 28.

4．For ésíya see xlv．17．Me for mei must be noticed．
5．Aluśi inani，which is exactly equivalent to aluśi Dhuspae， settles definitively the meaning of inanis．

7．This line apparently gives us the phonetic rendering of the ideograph of＇gate＇or＇pass．＇We should probably read E＝YYY 太AY Khaldi－ni zaisci zaduni＇the tablet to the Khaldi＇s of the pass he（i．e．Menuas）made．＇

8．The context here and in line 12 shows that allie must mean＇records，＇or something similar．In later inscriptions its place is taken by $\overline{H Y}\langle\hat{Y}$ puluśsi＇inscribed stone＇before kuiguni．If it stands for khallie as Aldis for Khaldis it is possible that Khal－dis may mean＇the recorder．＇
9. The signification of kuludi is fixed by the context. The only other sense that could be attached to it would be that of 'mountain,' but this is rendered highly improbable by the fact that the whole district in which the pass of Kelishin is situated consists of a mass of mountains. Moreover, the word kulus seems connected with kulmeie xlviii. 18.—Bikuras may be the modern Ushnei.
10. The position of ini after its noun, contrary to the invariable usage of all other inscriptions, goes far to show that the engraver of the inscription was not versed in the court language of Van.

If we read mui-du-li, the word will be a compound of mui 'spoil' (see Frag. I. 2. above), and $d u$ for $t u$ 'bring ; ' if teru$d u$ - $l i$, we must analyze into teru 'set up,' and $d u$ 'destroy.' The
 the word is replaced by $t u$-dae 'takes away,' and it must, therefore, have much the same sense.
12. For the omission of the dental in piutic see above.

Frag. IV. 1. Here the passage probably runs (Frag. II. 4.) : "Thus for the race of Khaldis after attacking the city of Ardinis for Ispuinis son of Sarduris (and) Menuas, son of Ispuinis, I took" so much spoil, including " 8,020 lambs, ... 2 gurukike (and) $12400 \ldots$ belonging to the city of Khatkanas." In the inscription of Meher-Kapussi (v. 19) the latter name is written Atkanas. The locative case after the verb nunabi must be noticed. Since gurukhe is conjoined with 'lambs' here, while the only other inscription in which lambs are mentioned is that of Meher-Kapussi, where 'wild oxen' are stated to have been offered to the gods of the land of Babas, it is possible that gurukhe signifies 'wild oxen.'
5. It is interesting to find Naras, that is, the Assyrian Nahri, here taking the place of Biainas, just as it does in the two inscriptions of Sarduris I. We may infer from this that the inscriptions of Kelishin and Meher-Kapussi belong to the period which immediately followed the reign of Sarduris I., when Vannic scribes were only just beginning to use the Assyrian characters for their own language.
6. For Suras see xliii. 18.
7. Here we should probably read -y Khal-di-i-ni-ni. Uskubi scems to be the first person sing. of a verb, compounded with the adverb us 'near.' We may perhaps translate:"For the children of Khaldis I besieged the city of Nipur (Ni-pur-ri-i-ni), the city of . . . nilas (and) the city of Huisis."

## LVII.

The Seal of Urzana King of Mutsitsir.
For the sake of completeness I add here the scal of Urzana of Mutsatsir, of whom Sargon speaks as follows (Bottu, iv. [rii. viii. x.] 72-77) ${ }^{1}$ :-"Urzana the Mutsatsirian, who to Urśa the Urardhian trusted and refused servitude, with the might of my army the city of Mutsatsir like a swarm of locusts I covered, and he to save lis life fled by himself and his mountains ascended. Into Mutsatsir as suzerain I entered, and his wife, his sons, his daughters, the spoil, the furniture, (and) the treasures of his palace as many as there were, along with 20,100 men as well as their families, Khaldia (and) Bagabartu his gods, as well as their numerous treasures, for a booty I counted. Urśa king of Urardhu heard of the destruction of Mutsatsir (and) the carrying away of Khaldia his god, and with his own hand he cut off his life with the iron sword of his girdle." This was b.c. 714 (see above, pt. iii. p. 408). Mutsatsir lay to the south of Van, as we learn from the Black Obelisk (lines 177-180), where Shalmaneser states that he sent the Tartan first to Khupuscē, then to Zapparia "a stronghold of the country of Mutsatsira," and that after the capture of Zapparia and forty-six other cities of Mutsatsir the Assyrian army marched "up to the borders of the country of the Urardhians," fifty of whose towns it destroyed. The worship of Khaldia, the god of Urśa, seems to show that the population of Mntsatsir was allied to that of Tan-indeed the

$$
{ }^{1} \text { See also W.A.I. i. } 36,27 .
$$

Vannic language appears to have extended as far south as Khupuscia, as the name of the latter country is formed by the gentilic suffix - a. Hence it is not surprising that the Assyrian title of Nahri "the river-land," which comprised the whole country between Lake Vau and Mons Masius, was regarded by the Vannic kings as synonymous with the name of their own kingdom. If the Assyrians have reported the name of Khaldia correctly, the god worshipped at Mutsatsir was not Khaldis, but "the god of the people of Khaldis." As, however, Sargon says that he was the god of Urśa, it would seem that they must really have confounded together Khaldis and Khaldias.
'The cylinder of Urzana must have been carried off by Sargon and is now in the Museum of the Hague. It has been published by Dorow, Die assyrische Keilschrift, pl. 1; Cullimore, Oriental Cylinders, pl. xxix. No. 140; Lajard, Culte de Mithra, pl. lxi. No. 9; and more accurately Ménant, Les Cylindres orientaux du Cabinet royal des médailles à la Haye, No. 145 ; Schrader, Monatsbericht der Königl. Akad. d. Wissenschaften au Berlin, 1879; and Lenormant, Gazette archéologique, No. 6 (1879), p. 250. Schrader first perceived that the inscription is in the Assyrian language, and gave a translation of it, while Lenormant showed that the two ostriches upon the cylinder which are being strangled by a winged human figure who stands between them represent the evil demons of the mountains overcome by the good genius. It is interesting to find the ostrich living so far to the north at this period. The fact that the inscription is Assyrian not only indicates that the seal was made at Nineveh, but further suggests that the Cuneiform characters of Van had not been communicated to the population of the neighbouring mountains. Had the king of Mutsatsir been acquainted with the Vannic mode of writing, he would not have gone to Assyria for the inscription on his seal. The inscription is talismanic and runs as follows:-

## 

2. sar -2y Mu-tsa-tsir u
king of the city of Mutsatsir and
3.     -         - YY Hu-ab (? $)^{1}-\mathrm{ti}$
the city Huabti (?)
4. $\overline{H y}\langle Y \Rightarrow$ - $=Y Y Y$
stone of the good-colossus (lamaśśrl)
5. sa cima tsir(i)
of whom like a serpent
6. ina sad-e limmuti
in the mountains evil
7. $\mathrm{pi}(-=Y$ Y $)$-su pi-tu-u.
its mouth is open.
Yy pulusi of the Vannic texts. The seal is composed of red jasper.

The Inscription of Tarku.
Among Schulz's papers was found a two-line inscription, entitled "Inscription de Tarkou, d'après un dessin du prince Dimitri Cantémir, qui se trouvait aven les instructions de Güldenstädt. St. P. 4 Aug. 1807." St.-Martin (Mémoires de $l$ 'Académie des Inscriptions, xii. 2, p. 114) averred that it stood at the gate of Tarku on the Caspian. It has, however, been shown by Löwenstern (Rec. archéologique, vii. p. 455), and more especially Holtzmann (Z.D.M.G. vi. pp. 379-388), that the inscription was not copied by prince Cantémir, but came from the first edition of Witsen’s Noord en Oost-Tartarye, ii. p. 563 (Amsterdam, 1705). The latter writer states that: "In the countries beyond Zarku, Boinak and Osmin is a district where a German physician, who had traversed it when flying from the anger of Stenka Rasin, has

[^244]informed me that he has seen on arches, walls, and mountains characters of the same form as those on the ruins of Persepolis, which he had also seen. This mode of writing belongs, it is said, to the language of the ancient Persians Gaures, Gabres, or fire-worshippers. Two specimens of it will be found here, which I give, although to-day these characters are unintelligible. Throughout the whole district, says this physician, especially at a little distance from Derbent, in the mountains by the side of the main road, one sees, engraved on the rock, figures of men dressed in a very strange manner, like the ancient Greeks or perhaps Romans, and not only isolated figures, but entire scenes and representations of persons engaged in the same action, broken columns, aqueducts, and arcades." ${ }^{1}$ But the first specimen given by Witsen-the so-called Inscription of Tarku-really came, not from a German physician, but from Hyde's "Veterum Persarum et Parthorum et Medorum religionis Historia" (1700), who took it from a paper published by $F$ (rancis) $A$ (ston) in the Philosophical Transactions, June, 1693. Aston here states that Mr. S. Flower, an agent of the East India Company in Persia, had copied it from a fragment of marble " at the Mountains of Nocturestand and Chahelminar in Persia in November, 1667," along with five other Greek, Sassanian, and Arabic inscriptions. Other cuneiform inscriptions copied at Persepolis by Flower are not given by Aston. The twoline inscription, however, which is given, now known as the Inscription of Tarku, really consists of specimen characters from the Persian, "Protomedic," and Babylonian transcripts of the Akhæmenian texts, grouped together without any regard to order and divided from each other by the Persian word-divider. It reads thus:
\[

$$
\begin{aligned}
& \text { 1. a (P.) r (P.) s (P.) u (B.) Y th (P.) bu (B.) si (B.) sa } \\
& \text { (B) rat (B) h (P) i (B.). } \\
& \text { 2. bumi (P.) a (B.) hu (B.) nu (B.) ak (Pr.) kha (Pr.) } \\
& \text { v (P) kh (P) ya (B) da (Pr.). }
\end{aligned}
$$
\]

[^245]
## The Inscription of Xerxes at Van.

This is engraved in an almost inaccessible part of the rock of Van, on the southern side, and about 60 fect above the plain. Like other Akhæmenian inscriptions, it consists of three versions, Persian, "Protomedic," and Babylonian, placed side by sidc. We learn from it that the rock was prepared by Darius Hystaspis, but some unknown cause obliged him to leave the task of filling it in with an inseription to his son and successor. It is difficult not to belicve that the ${ }_{g}$ reat inscriptions of Argistis on the rock of Van suggested to Darius the idea of commemorating his own power in a similar way, and it is possible that we owe to this the inscriptions of Behistun and Naksh-i-Rustem. I have already noticed the remarkable resemblance between the form in which the Akhemenian inscriptions are drawn up and that of the older Vannic texts. In both we have an invocation to the supreme deity at the beginning, and each paragraph is introduced by the phrase "he says." As this phrase does not occur in the Babylonian or Assyrian inseriptions, Darius must have borrowed it from Van. If the people of Van used the Hittite hieroglyphs before they adopted the cuneiform system of writing, they may well have been familiar with the phrase, since the inscriptions of Carchemish also begin with it. The following is a translation of the Inscription of Xerxes : ${ }^{1}$ -
"A great god is Ormazd, who (is) the greatest of gods, who has created this earth, who has created that heaven, who has

[^246]created mankind, who has given happiness to man, who has made Xerxes king, sole king of many kings, sole lord of many. I am Xerxes the great king, the king of kings, the king of the provinces with many languages, the king of this great earth far and near, son of king Darius, the Akhæmenian. Says Xerxes the king: Darius the king, my father, did many works through the protection of Ormazd, and on this mountain he commanded to make his tablet and an image; yet an inscription he did not make. Afterwards I ordered this inscription to be written. May Ormazd, along with all the gods, protect me and my kingdom and my work."

Armenia seems to have formed part of the Median empire when it was conquered by Kyros. According to Hdt. i. 74, 75 , the Median empire extended as far west as the river Halys, and a cuneiform inscription on a gryphon's head of red stone, discovered in Kappadokia, which I have published in the Proceedings of the Society of Biblical Archroology, Nov. 1881, is in the characters of the Amardian or "Protomedic" syllabary. ${ }^{1}$ On the other hand, before the rise of the kingdom of Ekbatana, at the time when Jeremiah li. was first written, there were "kings" of the Medes, while the principalities of Askchenaz (Asguza), Minni and Ararat were independent. The war between Darius and the pretender Phraortes, who professed to be Satarritta the Median king, was partly carried on in Armenia, where the Armenian Dadarses, the geueral of Darius, fought three battles at Zuza, Tigra, and Uhyâma. That the Vannic language was still spoken in Armenia is pretty clear from the names of Khaldi-da or Khaldi-ta and of his son Arakha (Kharakla in the Amardian

[^247]version), who had settled in Babylonia, and claimed to be Nebuchadnezzar, son of Nabonidos.

In concluding this memoir, I have only to add that no one can be more sensible than myself of the imperfections it contains. There is much yet to be done before the decipherment of the Vannic inscriptions can be placed on a thoroughly satisfactory footing. New inscriptions are needed as well as squeezes or photographs of many of those of which we now possess copies only. The cast of the inscription of Kelishin, which I did not receive intil after the publication of the first part of the mentoir, shows the light that may be poured at any moment on obscure questions of Vannic grammar and lexicography by the discovery of a single fresh text. We know of the existence of four still unpublished inscriptionsthose of Tash-Tepé, Sidek Kelishin, Erzerûm, and Alichalu (since the so-called copy of the latter which we have is a caricature rather than a copy)-all of them of considerable historical importance, and one at least within the limits of Russian territory. And there must be others besides these which are yet to be discovered.

The phonology of the language especially requires further elucidation. We have to settle the exact pronunciation of $e$, and its use as a modifier of the other vowels. The question of long and short rowels has also to be determined. My account of the grammar, too, will doubtless be corrected and supplemented by more extended researches. Light is thrown on the import of the suffix -tsi by the equivalence of ebani-a-tse-cli-ni and ulgusi-ya-ne-di-ni (p. 655), and I am now disposed to think that the following view of the declension is the one which best explains the facts and gets rid of anomalies. I am now inclined to doubt whether originally any difference was made between the cases of the singular and plural any more than it was between the singular and plural third person of the verb. Originally both singular and plural were alike Khaldis in the nominative, Khaldi or Khalde in the genitive, dative, and accusative, Khaldida in the local, Khaldidi in the locative, and Khaldili in the perfective. The demonstrative
then came to be attached to all these cases-the nominative excepted-like $-\iota$ in Greek or -ce in Latin. Hence arose Khaldini, Khaldidani, Khalddini, and Khaldilini. For reasons which I cannot explain the locative Khaldidini was disused; at all events no such form is found in the texts. Khaldini became the regular form of the accusative singular, as would naturally be the case, the accusative in other languages being similarly distinguished from the nominative by the help of a demonstrative. By way of distinction the demonstrative was dropped in the accusative plural. On the other hand, it was retained in the genitive-dative plural through a confusion with the adjectival suffix -ni, Khaldi-ni 'to that belonging to Khaldis ' being equivalent to 'to the Khaldises.' A striving after differentiation next led to the omission of the demonstrative in the genitive-dative singular. In the perfective the demonstrative came to be employed only where a special emphasis had to be laid upon the word, as, for example, where it came at the end of a series of other perfectives. Its use in the local was influenced by the analogy of the accusative; when - $n i$ had come to be regarded as the sign of the accusative singular, there was a natural tendency to attach it to the case (in the singular) which had much the same signification as the accusative. 'The new form, Khaldida-ni, tended to supersede the old attempt to distinguish between the singular and plural of the local by reduplicating the local suffix -dada, contracted into -dad. This attempt was imitated in the locative, where -didi contracted into -did was sometimes used to denote the plural. But the attempt was never fully or consistently carried out, and up to the last evident traces remained of the fact that originally the cases of the Vamic noun had been the same in both singular and plural. Indeed, where a noun was formed by the suffix -ni(s), the latter was confounded with the old demonstrative affix of the accusative singular, producing Khaldini 'the Khaldinian,' instead of Khaldinini, like forms in -khinis which drop the $-n i$ in the accusative. To explain this we must go back to the time when the demonstrative was not as yet invariably attached to the accusative singular, and where it was attached was affixed only to the substantive, not
to the adjective which agreed with it. It was only the pronoun, as in pi mesini, which took tho demonstrative, and accordingly obliged its substantive to drop it. ${ }^{1}$

Before, however, these and such like questions of Vannic grammar can be finally settled, much will have to be done. I shall be content if my Memoir will have prepared the way for other and more advanced researches into the language of the Vannic inscriptions, and more satisfactory explanations of the words and phrases they contain. Above all, I would direct the attention of Georgian scholars to the subject, and ask them to examine whether or not the modern Kartvelian idioms are in any way connected with the old language of Van.

## VOCABULARY.

[The Roman ciphers denote the inscription, the Arabic ciphers the line. ${ }^{2}$ ]
A.

- A-a-i-na-hu-e. To the god of the land of Aais. v. 23, 65. See p. 669.

Y A-bi-a-ni-i-ni. Abianis (acc.). xlix. 14. King of Edias. A-bi-da-du-bi. I burnt; interchanged with -bi. xliii. 4; xlv. 9 ; 1. 27.

[^248]YA-bi-da-i-a-ni-e-khi. The son of Abidayanis. xxxvii. 17. A chief near Melazgherd.
\# A-bu-ni-i-e. The land of Abunis (N.W. of Lake Van). xlv. 38.
tit A-bu-ni-i-e-di. Into the land of Abunis. xxxvii. 12.
$=$ YY Abur-za-ni-ni. The city of Aburzas. xxxix. 37. In Bustus. A.da. And. Originally 'partly.' v. 25, 70 (where the copies have $a-l i)$; xxx. 17 ; xxxiii. 9 ; xlv. 19,22 ; xxi. 7 (?); see note on last passage.

A-da-a. xxxiii. 13.
A-da-a-da. In part-in part (some-some) ; both-and. xix. 7, 8.
A-da. The whole, the sum; ideograph 1 . xxi. 3; xlix. 25.
A-du-bi. I summed up. xlix. 26.
A-da-i-śi. Summing up, collecting (?). li. 4.
A-da-e-da . . Place of assemblage (?). xlv. 33.
A-da-a-ba-a-di. Among the assemblage (?). xxxvii. 24.
A-da-a-ba-di. xxxviii. 39 ; xxxix. 27, 52 ; xl. 29, 49, 77 ; xliii. 22, 46; xli. 11 ; xliii. 10, 32, 69 ; xlix. 29; 1. 10. A-da-i-a-ba-di. xxxvii. 4 ; xxxviii. 10 ; xxxix. 3 ; xli. 4. A-da-bi-di. Probably the same word. lir. 6, 10, 11.
A-da-ma-a-nu. Some and each, or all and cach. xxxii. 10.
A-da-kid. Purlly, some. xxxii. 9.
A-da-ki. xxxvii. 14 ; xli. 42 ; xxxviii. 21,47 ; xxxix. 15,42 ; xl. 3, 4, 37, 38, 61 ; xli. 8 ; xlii. 6, 28, 65.
A-da-e. He says; stem $a . \quad \mathrm{xx} .10$; xxi. 3, 6 ; xxx. 7, 12, 18, 29 ; xxxii. 2 ; xxxiv. 8 ; xxxvii. 1, 2, 16, 21,22 ; xxxviii. 2 , $8,11,23,29,38,49,56$; xxxix. 4, 23, 28, $39,44,49,53$; xl. $9,24,31,40,47,51,65,71,78$; xli. 1, $10,12,15,16$; xliii. $1,9,15,19,31,37,41,51,68,74,77$; xliv. 3 ; xlv. 33 ; xlvi. 13,23 ; xlvii. 2 ; xlviii. $9,14,25$; xlix. 4, 7,25 ; l. 34 ; li. 4, 9 , iii. 3; lvi. (1,) 2 ; xxxv.A. 1 Rev.

A-da-a. l. 6.
A-da. xx. 10; xxii. 7; xxviii. 2; xxix.B. 10; xxxiii. 22 ; 1. 21 ; liii. 3 ; lri. (2,) 1.

- A-da-ru-ta-a. To the god Adarutas. v. 9, 41.
- A-di-i-a. To the god Adias. v. 23.

A-gu-bi. I took, selected. xxii. 10; xxix.B. 7, 9; xxxrii. 14; xxxviii. 20, 21, 47 ; xxxix. 15, 42; xl. 4, 38, 61, 73; xli. 7 ; xliii. $6,17,28,65$; xlviii. 31 ; 1.25 ; 1ヶ. 14.

A-gu-hu-bi. xxii. 9.
A-gu-bi-e. xxxvii. 43.
A-gu-ni. He took. xxii. 3; xlv. 22, 40.

A-gu-hu-nu-ni. Spoil. xlviii. 28.
A-gu-nu-hu-ni. xlix. 16.
A-gu-nu-ni. xxxrii. 26 ; xxxix. 62 ; xliii. 16, 39, 56, 75,78 ; xlix. 14,15 ; l. 20.
A-gu-nu-ni-ma-a-nu (?). xxxriii. 13.
A-gu-hu-ni-e-da. Place of spoil. xxx. 27.

-     - A-i-a. To the god Aias (the Earth-god). r. 21.
it A-i-du-ni. The land of Aidus. xxix.B. 5. See p. 395.
A-i-e. In the land. xxr. 6.
A-i-ni-e. To the earth or dust. Literally what belongs to the land, ainis being an adj. in -nis from ais. xxxi. 27 ; xxxr.A. 5 Rer.; lvi. (3,) 3.

A-i-ni-e-i. xx. 12 ; xxii. 8 ; xliv. 6 ; xlviii. 17 ; 1.7.
A-i-ni. vii. 5 ; xxx. 31 ; l. 36.

- ${ }^{Y}$ A-i-ra-i-ni-e. To the god Airainis. v. 11, 45.
$-=Y$ A-khi-u-ni-ka-ni. City of the clan of Akhiunis. $\quad$ xxix B. 1. See p. 395.
\{y A-la. . . The stone . . . xxxvii. 29.
\# A-la-dha-i. Of the country Aladhas. xl. 57. Near Bustus.
- Al-di-s. The god Khaldis; see Khaldis. Ivi. ii. 1.
- Al-di-e. To thaldis. lri. i. 12.
- A Al-di-ka-a-i. To the race of Hhaldis. Ivi. iv. 3.
- Al-di-na. The land of Khaldis. 1ri. i. 12.

Al-di-ni-e. To the Khaldinians. xli. 13.
Al-di-ni-i-e. Stones (?). ז. 29, 80.
F Al-du-tu-si-ni-e. $T_{0}$ the God Aldutusinis. $\quad$. 10, 43. Perhaps a compound of al and dutu.
ti Al-ga-ni. Of the land Alganis (belonging to the Minni). xl. 36.
AA Al-ga-ni-na-hu-e - . To the god of the land of Alganis. r. $18,56$.

Al-khi-e. Inhabitants. Cf. aluśie. 1. 2, 6. The root is al.
Al-khe. xxxiii. 16.
Al-khi. xxxviii. 41 ; xlix. 17.
Al-li-i-e. Records. lvi. iii. 8, 12.
Al-śu-hu-i-ni-e. Belonging to multitudes. xxxiii. 19.
Al-śu-hu-i-ni. $\quad$ xx. 7.
Al-śu-i-ni. xxi. 5 ; xxrii. 11 ; xxix. 10 ; xxxr. 7 ; xlviii. 6; l. 33 ; li. iii. 9 ; lii.

Al-śu-घi. xx. 7 ; xxxri. 9.

Al-śu-i-si-e-ni. To the multitudinous. xli. 12. Perhaps a compound of al and sui.

Al-śu-i-si-i-ni. xxxix. 55 ; xl. 70.
Al-śu-u-si-i-ni. xlvii. 1.
Al-śu-hu-i-si-ni. xx. 5 ; xxvii. 8 ; xxix.B. 8 ; xxxiii. 17 ; xxxvii. 19 ; xl. 22, 81 ; li. iii. 1.
Al-śu-i-si-ni. ri.A. 1 ; xxxvii. 4,23 ; xxxriii. 7, 10 , $15,28,39$; xxxix. $3,5,23,27,30,48,52$; xl. 34 , $46,49,53,77$; xli. 16 ; xlii. 1 ; xliii. $22,36,46$, 73 ; xlviii. 4 ; xlix. 6 ; l. 9,32 ; li. 1 ; lii.
Al-śu-si-ni. xx. 5 ; xxii. 4 ; xxix. 8 ; xxxy. 5 ; xxxri. 8 ; xl. 28 ; xlvi. 10, 27.
Al-śu-i-si-e. (Sing.) r. 12.
Al-śu-hu-si-e. $\quad$. 49.
A-lu-hu-s. Whoever. xliv. 3.
A-lu-s. x. 3 ; xix. $13,14,15,17$; xx. 10, 11, 13 ; xxi. $6,8,9,10,12$; xxii. 7, 8, 9 ; xxviii. 2; xxx. 29, $30,31,32$; xxxi. 21, 22, 27, 29 ; xxxiii. 22, 23, 24 ; xxxir. 16, 17, 18 ; xxxr.A. 2, 3, 5, 7 Rev.; xliv. 5, 6, 9, 11 ; xlviii. 14, 16, 17, 19; 1. 35, 36 ; lvi. iii. $3,10,11$.

A-lu-kid. In any case. ャ. 26.

- A A-lu-s-Hu-ru-li-hu-e-Si-hu-a-li. To the god who (is) when the offspring are carried away. r. 9, 43.
A-lu-hu-si-e. Inhabiting; allied to alkhe. xxvii. 13 ; xlviii. 8 ; li. iii. 11.

A-lu-hu-śi. xxii. 6.
A-lu-śi-e. xxxiii. 21.
A-lu-śi. xx. 8 ; xxri. 7 ; xxri. (2,) 6 ; xxix. 12 ; xxxr. 9 ; xxxri. 10 ; l. 34 ; lii. ; lvi. iii. 5, ir. 6.
A-lu-hu-śi-ni (?). xxxrii. 4.
A lu-hu-si-ni-ni. To the gods of the inhabitants. xxxrii. 23 ; xxxix. 51.
A-lu-śíni-ni. xxxviii. 10,39 ; xxxix. 3,27 ; xl. 28, 49,76 ; xliii. 22,45 ; xlvi. 27 ; 1. 9.
\& Al-zi-i-ni-ni. The land of Alzis. See p. 398. xxxii. 8.
Al-zi-ra-ni. 1r. 9.
A-ma-as-tu-hu-bi. I plundered. Compounded of amas and tu. xxxii. 3 ; xxxix. 57 ; xxxv.A. 2 Obv.

A-ma-as-tu-bi. xxx. 9 ; xl. 58 ; xlv. 4, 7.
$=$ FY A $-\mathrm{me}-\mathrm{gu}(?)$. . . The city of $A$ me . . $\quad$ xiiii. 54.
A-mu-hu-bi. I captured (?). xxxix. 32.
. . . a-na-si-i-e. xxxi. 1, 14.
An-da-ni. Roys. xxxvii. 8 ; xxxviii. 16 ; xl. $55 ; 1.12$.
A4-ni-is-ti(?)-ir-hu-e. Of the land of Anistir (in Georgia). xxyrii. 18.
. . a-nu-ni. r. 31, 83 ; ri.D. 3.
Ap-ti-i-ni. Which was called. See tini. Ap seems to be a prefixed relative. xi.A. 3.

Ap-ti-ni. xxxii. 6, 7; ly. 12.
Arame or Arrame, King of Ararat, p. 405. Perhaps we should read Arare, which would be written in Vannic $A-r a-h u-e-s$ 'belonging to Aras.' Cf. aris.

- A-ra-za-a. To the God Arazas. v. 11, 46.

Ar-bi-i. xi.A. 3. See si-ri-bi-i.
Y Ar-da-ra-ki-khi. The son of Ardarakis (N. W. of Lake Van). lxv. 16. $-=Y Y$ Ar-di-ni. The city of Ardis, near Kelishin. lvi. ii. 2, iii. 6.
$\Rightarrow=Y$ Ar-di-ni-di. In the city of the Ardinians. Ivi. ii. $\overline{5}, \mathrm{i} .4$.
$==Y Y$ Ar-di-ni-na-hu-e $-Y$. To the god of the city of the Ardimians. ₹. 14, 52.
$\rightleftharpoons \rightleftharpoons Y$ Ar-di-nie-i. xliii. 42.

- ${ }^{*}$ Ar-di-i-e. To the god Ardis. r. 23.

Ar-di-ni. Publicly. Ideog. AY-ni. r. 26.
Ar-di(?)-ni(?)-ni. Day by day. 1. 39.
Ar-di-sc-e. Regulations. xlr. 23.
Ar-di-se. F. 2, 34; 29, 80; xix. 6; xlriii. 10.

- Ar-dhu-ha-ra-ir-hu-e. To the god of Ardhuharair. r. 14, 51.

Y Ar-gi-is-ti-s. xxrii. 22 ; xxxix. 23, 28, 39, 53; xl. 23 ; xli. 15 ; xliii. $1,19,37$; xliv. 1 ; xlvi. 12 ; xlrii. 2.

Y Ar-gis-ti-s. xxxrii. 2, 16, 21; xxxriii. 2, 8, 23, 29, 49 ; xxxix. 4, 44, 49 ; xl. 40, 46, 65, 71, 78; xli. 1, 10, 12 ; xlii. 1 ; xliii. $9,31,41,51,68,74,77$; xlr. 33.
YAr-gi-is-ti-i-s. xxxriii. 11, 37, 50 ; xl. 9, 30, 50; xliii. 15 ; xlri. 22. Ar-gi-is-ti-e. xlv. 19, 40.
Ar-gi-is-ti-i-ni. xxxvii. 20.

Y Ar-gi-is-ti-ni. xxxvi. 5, 8; xxxviii. 4, 28; xlv. 31 ; xlvi. 11.

Ar-gis-ti-e-khi-ni-s. The son of Argistis. xlviii. 3, 25.
Ar-gis-ti-khi-ni-s. xlix. 25, 29; li. 2, iii. 2.
Ar-gis-ti-khi-ni-e. xlix. 2.
Ar-gis-ti-khi-ni. 1. 3.
Ar-gis-ti-e-khi. xlviii. 5 ; 1. 5.
Ar-gis-ti-khi. xlix. 4 ; l. 33 ; li. iii. 8 ; lii.
Ar-gis-te-e-khi-ni-da. Place of the son of Argistis. xl. 71.

Y Ar-gis-ti-i-ka-a-i. To the race of Argistis. xxxviii. 26, 54 ; xxxix. 48 ; xlvi. 7.
Ar-gis-ti-i-ka-i. xxxviii. 6.
Ar-gis-ti-ka-i. xxxvii. 18 ; xxxix. 22 ; xl. 69 ; xliii. 14, 72.
YAr-gi-is-ti-i-ka-i. xl. 45 ; xliii. 35 ; xlv. 29.
Ar-gi-is-ti-ka-i. xl. 20.

- Ar-ha-a. To the god Arhas. v. 22.

A-ri-e-dha. He becomes, 3rd s. pres. of the subst. rb. xlix. 18.
A-ri-e-ni. xxxix. 5.
Aris (?). "A man." See Ideographs No. 6, and note.
\& Ar-kha-hu-e-e-di. Into the land of the Arkikians (near Bustus). xxxix. 34.

Ar-khi-e-hu-ru-da-a-ni. Family (acc.); compound of ar-khi 'offspring' from aru 'to bear,' and hurudas. xxi. 14-15.

Ar-khi-hu-ru-da-a-ni. xx. 17; xxx. 34; xxxiii. 27 ; xxxiv. 22 ; xliv. 18 ; xlviii. 23 ; l. 39.

Ar-khi-u-ru-da-ni. xxii. 12.
Ar-khi-hu-ru-da-ni. xxviii. 11.
$=Y Y Y$ Ar-ma-a-ni-e-da-ad. Tablets. xx. 3.
=YYY Ar-ma-ni-da-ad. xx. 3.
Ar-mu-zi-i. With a curse (?). xliv. 16.
Ar-mu-zi. xxviii. 9 ; xlviii. 22 ; lvi. iii. 14.
Ar-ni-i-e. Of the fort. v. 17, 54.

- Ar-ni-i-e. To the god Arnis. v. 12, 48.

Ar-nu-ya-da. Castles. xxxi. 4 ; xly. 35.
Ar-ni-hu-si-ni-e-da. The citadel (of Van). xxxviii. 24, 50 ; xxaix. 45. See note on Inani.

Ar-ni-hu-si-ni-la. xxxvii. 16 ; xxxriii. 3; xxxix. 19 ; xl. $12,41,66$; xli. 11 ; xliii. 10, 32, 69 ; xlix. 29.

- Ar-śi-me-la-e. To the god Arśimelas. v. 39.
-     - Ar-śi-me-la. $\quad$. 6.
-     - Ar-tsi-bad-di-ni-e. To the god Artsibaddinis. v. 12, 48.
-     - YY Ar-tsu-hu-i-ni-ni. The city of the Artsuians (the modern Sirka, near Van). r. 15.
- $=1$ Ar-tsu-hu-ni-ni. $\quad$ r. 54 .
$-=Y$ Ar-tsu-ni-hu-i-ni-e. (Apparently the same city, now Sirka.) xi. 1.
\& Ar-tar-mu . . The land of Artarmu. . . xxxrii. 33.
A-ru-hu-bi. I brought. xxxii. 10 ; xliii. 76.
A-ru-hu-ni. He brought. xxx. 16 ; liv. 2.
A-ru-ni. xli. 13 ; xlv. 20 ; xlviii. 26 ; li. iii. 3 ; lri. i. 12.
$=$ =YY A-ru-si. The city of Arusis (near Malatiyeh). 1. 29.
A-sa-a-zi-c-khi-i-ni-e. 'The sons of the . . .' (apparently the commissariat offieers). xxx. 21, 23. It is possible that we ought to read $g i$ instead of $z i$.
As-du. Occupying. xxxix. 1, 25. Literally 'house-establishments,' from asis and du (for asidu).
=YYY A-si-e. Of the house, temple. r. 12, 49.


A-se. Gods (?). xxiv. 7. This word may possibly be better rendered 'temples.'
As-ga-la-a-bi. $\quad I . .$. . xlix. 12. The reading as-hu-la-a-bi must be rejected. The word is a compound of as (as in $a s-d u$ ) and gala (as in gala-zi).
As-gu-bi. I took. xxxix. 35 ; xlv. 26 ; 1. 16; lv. 13. Probably a compound of as and $g u$.

As－kha－as－ti．Of the food－remover．x． 5 ；xii．2．A compound of askha－$s(i)$＇belonging to food＇and $t i(u)$＇to undo．＇
（As）－kha－as－te－e－sc．The food－removers（pl．of adj．in－sis）． x． 2.
As－kha－as－tu－li．After the bringing of the food．rii． 2. A compound of askha－s（i）and tu＇to bring away．＇
As－khu－da－ni．Place of food（acc．of the localizing form）． xix． 12.
As－khu－me．Let them eat（？）xxiv． 6.
\＆As－ka－la－a－si－e－di．Among the Askalaians（N．W．of Lake Tan）． xlv． 6.
tiAs－ka－la－a－si－e．xlv． 11.
A4 As－ḳa－ya－i．Of the land of Askayas（in Bustus）．xl． 54.
As－ta（nu－la－da）．Palace（？），perhaps for asida．liv．6，10， 11. See $n u$－la－da．
As－ti－hu．War－magazines．xliii．42．Perhaps a derivative in －di，from asis＇house．＇

As－tc－hu－i－hu－ni．Belonging to the war－magazines．xxx． 21.
$\Longrightarrow Y$ A－śi $Y \lll<$ ．Horsemen，charioteers．マ．13，50；xxx．20， 21 ；xlv． 26.

ExYy A－sí $Y$ 《＜＜．v． 51 ；xxxix． 16 ；xlviii． 31.


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＝－Y A－śi－$\dagger \lll<-h u-e-d a . \quad$ Cavalry－quarters．xli．4； xliii． 23.
$=Y$ A－śi－$Y \lll<-h u-e-d a-d u-d a$. Ruined cavalry－quarters． xliii．43．Compounded with $d u$＇to destroy．＇
＝$\quad$ Y A－si－$\dagger$＜＜＜－hu－e－da－du－hu－da．xxxix． 49.
A－śu－ni．Neighbourhood（？）．xxx．11；xxxiv．14；1． 15.
A－śu－ni－ni．xli． 18.
ユート A－tsu－s．Month．v．2， 34.
A－tsu－si－ni－e．Monthly．xlviii． 10.
－ 4 t－bi－ni－i－e．To the god Atbinis．v．8， 40.
A－ti－bi．Thousands，myriads（see p．628）．xxxi． 15 ；xxxvii．14， 15 ；xxxviii． 2 ；xliii． 30,67 ；xlv．14， $21,22$.
$\rightarrow Y \mid \lll(-Y Y)$ At－ka－na－hu－e．To the gods of Atkanas．$\quad$ ． 19，57．See Khatkanas．

A-hu-i-e-i. To water (nom. avis). xxi. 8 ; xlir. $13,20$.
A-hu-i-e. xx. 19; xxi. 16 ; xxii. 14 ; xxriii. 12 ; xxx.
36 ; xxxiii. 28 ; xxxiv. 24 ; xlviii. 24 ; 1. 40.
A-hu-e. xx. 19.

- A-hu-i.e. To the water-god. v. 21.
=Yy- A-hu-e-ra-si-da. Place of the auxiliaries. xxxis. 30 .
Ely-A-hu-e-ra-si-ni. xxxix. 32.
ti A-za-ru-ni-ni. Land of the Azarunians. Ir. 11.
A-zi-i-bi-e. The dead (?); statues (?). xxxvii. 1.
A-zi-bi-i. xi.A. 3 (note).


## B. See also P.

14 Ba-ba-a. Of the land of Babas. r. 21, 59; xxxix. 40. See pp. 486, 579.
\$A Ba-a-ba-ni-e. xliii. 71.
A Ba-ba-a-ni. xl. 57.
\# Ba-ba-ni. xxxvii. 10 ; xxxix. 5 ; 1. 14.
\& Ba-ba-ni-a. The people of the Babaian land. 1v. 12.
\& Ba-ba-na-hu-e. To the god of Babas. r. 20, 58.
it Ba-bi-lu-hu. Of the land of Babilus (the Babyrsa of Strabo, near Artarata). xlix. 5.
\# Ba-bi-lu-ni-e. xlix. 4.
Bad-di-ni. To all. r. 24, 67 ; xi. 2.
Ba-di-ni-ni. xliii. 2.
Bad-di-ma-a-nu. All and each. xxx. 17.
Bad-di-sa-ni. Of every kind. v. 25, 72. Perhaps compounded with $s a$ (as in $s a-d a$ 'there').
Bad-li $Y \lll<$. $\quad$. 7, 40. See - -li $Y \lll<$.
Ba-a-du-hu-śi-e. Decayed, old. xxxv. 4.
Ba-du-hu-śi-i. xrii. 5.
Ba -du-śíi-ie. x. 8.
Ba-du-śi-i. xriii. 5.
Ba-du-śi-e. ix. 2; xiii. 2.
Ba-du-śi-ni. iii. 2.
Y Ba-al-tu-ul-khi-e. The son of Baltul (in N.W. of Lake Van). xxx. 25.

Bal-tu-ul-khi. xlv. 16.
it Ba-am-ni. The land of Bam (in Kurdistan). xli. 18, 20.
\& Bar-su-hu-a-i. Of the land of Barsuas. xxxix. 13. Southwest of Urumiyeh, the Barśuas or Parśuas of the Assyrians. See pp. 389, 400.

A Bar-su-a-i-di. Into Barsuas. xxxix. 12.
it Ba-ru-a-ta-i-ni-a. The people of Baruatainis (N.E. of Tan). xlix. 6.
=YYYY Bar-śu-di-i-bi-du-hu-ni. A chapel. xix. 4. Cf. Biduni.
EYYYY Bar-śu-di-bi-i-du-hu-ni. xxv. 3, 5; xxvi. (3.) 3. Bar-śu-di-bi-du. xix. 12.

- Bar-tsi-i-a. To the god Bartsias. v. 22.

Bar-za-ni. Apparently some kind of sacred edifice. xix. 9; lir. 3. Bi. His (dialectal form). liii. 6.
\& Bi-a-i-na-e. Of the land of Biainas or Van. xx. 7; xxii. 5; xxxri. 9.
ti Bi-i-na-e. xx. 7.
A Bi-a-i-na-di. Into the land of Biainas. Ir. 14.
i Bi-a-na-i-di. xli. 7 ; 1. 25.
A Bi-i-a-i-na-a-i-di. xliii. 50 .
ti Bi-a-i-na-a-hu-e. The Biainian. xxxr. 8.
ta Bi-i-a-i-na-hu-e. xxvi. 6 ; xxvi. (2.) 5 ; xxxiii. 20.
t Bi -a-i-na-hu-e. xxrii. 12 ; xxix. 11 ; xlviii. 7, 13 ; l. 23 ; li. iii. 10.
ti Bi-a-na-as-te. Loc. pl. of adj. in -sis, xxxix. 2; xl. 27, 48, 76; xli. 3; xlvi. 26.
it Bi-a-i-na-as-te. xxxviii. 9, 39; xxxix. 27, 51; xliii. 45 ; 1. 9.
\& Bi-i-a-i-na-as-te. xliii. 21.
it Bi-i-a. Of the land of Bias. xlv. 1. Near Melazgherd.
\& Bi-a-ni. xxxvii. 8.
tit Bi-a . . . lvi. i. 3.
Bi-bu-di-id. Vases. 1. 25.
Bi-di-a-di-ba-ad $Y \lll<$. Some kind of property belonging to slaves. 1. 18.

Bi-du-ni. Priests. xxx. 17 ; xliii. 60. See Barśudi-biduni.

- $=$ YY Bi-ku-hu-ra-e-di. In the city of Bikuras (near liowandiz). lvi. iii. 9, 14.
$\Rightarrow$ YY Bi-khu-ra-a-ni. The city of Bikhuras (perhaps the same as Bikuras). xli. 17, 18, 20.
$=-Y Y \mathrm{Bi} . . \mathrm{hu}^{(?)}$ )-kha-hu-ni-e. The city of Bi . . . ukhaus. xxxviii. 44.

Bu-lu-śi. Written. Sce puluśi.
$=$ =YY Bu-i-ni-(al-khi). (The inhabitants) of Buis (in Gcorgia). xlix. 17. See al-kki-e.

Yy- Bu-ra-as. The court. xxxv.A. 7 Obv.; xlv. 18 ; xlix. 17.
Bu-ra-as. xlv. 39.
Bu-ra-na-di. 1. 6.
Bur-ga-la-da. Temples. xxxi. 3, 11 . Perhaps a compound of bur (as in buras) and gala (as in galazi).
Bur-ga-na-ni. Altar (?). iii. 1, 2; r. 29, 79.
t Bu-us-tu-hu-ni. The land of Bustus (adjoining Barsuas). xxxix. 61. It is the Bustu of the Assyrians. See p. 400.
t Bu-us-tu-ni. xxxix. 21, 47; xl. 44.
\& Bu-us-tu-hu-e-di. (Loc.) xxxix. 36.

- Bu-us-tu-e-di. xl. 53.


## D.

Y Da-a-da-ni. Dadas. xxxix. 32. A chief of Barsuas or Bustus. Da-di-ka-i. Of the race of Dadis. Apparently the same as Dadas. xxxix. 5.
${ }^{14}$ Da-ki-hu-e-e-di-a. The people of Dakis (in Georgia). xlix. 14.
IY Da-i-na-la-ti-ni-ni. The river of the Dainalatians (among the Minni). xliii. 17.
$=$ YY Da-a-ra-ni. The city of Daras (near Erivan). xxxri. 7.
Y Di-i-a-hu-khi-ni-e-i. (The kingdom of) the son of Diaves. xlr. 4 ; xlvi. 17. The Dayaeni of the Assyrians, on the Murad Chai, near Melazgerd. See p. 399.

Y Di-a-hu-e-khi-ni-i. xxx. 19.
Di-a-bu-kbi-ni-e. xlr. 34.
Y Di-i-a-hu-e-khi. (Ace.) xxx. 13.
(Di-a-hu-e-khi. xxx. 7; xxxvii. 6; xlv. 17; xlri. 4.
Y Di-i-a-hu-khi. xlri. 13.
Y Di-a-hu-e-khi-ni-e-di. (Loc.) xxx. 2; xxxvii. 6.
$4 \backslash$ Di-a-hu-e-khi-ni-di. xlv. 23.
$Y$ Di-a-hu-khi-ni-s. (Nom.) xlv. 19.
44 Di-di-ni-e. The land of Didinis (N.W. of Lake Van). xlv. 2.
$\rightarrow$ Di-e-du-a-i-ni-e. To the god Diduainis. $\quad$. 40.
$\rightarrow$ Di-du-a-i-ni-e. v. 7.
Di-du-li-ni. After the . . . xvi. 3. The name of the god Diduainis ('belonging to the pcople of Didu'), which is followed at Meher-Kapussi by the name of the Moon-god, is from the same root. Pcrhaps the word means ' night.'
Di-ru-si-i-c. To the . . (Dat. pl. of adj. in -sis). $\quad$. $13,50$.
Y ... di-ra-hu-e. To the god... diras. $\quad$. 19, 57.
\# Du-u. A monument. li. 3. See $U d u$.
Du-hu-bi. I destroyed. xxxv. A. 6 Obv. ; xxxvii. 6; xxxviii. 36 ; xxxix. 1; xliii. 2.

Du-bi. xxxv.A. 8 Obv. ; xxxvii. 5 ; xxxviii. 35 ; xli. 4 ; xliii. 23 ; xlv. $10,15,39,40$; xlvi. 16.

Du-da-i-e. He destroys. xix. 14,16 ; xx. 12 ; xxi. 12 ; xxxr.A. 36 Rev.; xliv. 7 ; lri. iii. 4.
Du-da-e. xix. 17 ; xx. 12 ; xxriii. 5 ; xxx. 31 ; xxxi. $25,26,27$; xxxiv. 17 ; xlriii. 15,18 ; l. 36.
Du-da. xxii. 9 ; xxxiii. 24 ; l. 36.
$=Y Y$ Du-ka-ma-a-i-di. Into the city of Dukamas (in Barsuas). xxxix. 8.

Du-ur-ba-ni. Coupled with sisukhani. xlvi. 14.
Duris in Sari-duris. Perhaps 'giren' or 'servant.' Comparing $e$-uris and giss-uris we find the root to be $d$-.
Du-ru-a-i-ni. lv. 10. Doubtful reading.
Du-si-si-i-hu-li-ni. After the winter. v. 31, 83.
Du-tu. (Acc. pl.) xxxi. 10.

## DH.

- $\rangle$-Dha-ni-si-i. Some class of persons. li. iii. 4.
- $\langle y$ Dha-ni-e-śi-i. xlviii. 27.
it Dha-ir-tsu-bi. The land of Dhairtsubi (?). xxxvii. 25.
Dha-ri-khi-ni. The inhabitants. xri. 2. The stem dharu is here weakened to dhari.

Dha-ru-khi-ni-i. xxxrii. 12.
${ }^{4}$ Dhu-a-ra-a-tsi-mi-c-i. The chief(?) of the land of Dhuarus. xliii. 12. Sce p. 436. Perhaps we should read Dhu-e- for Dhu-a-.

- Dhu-ra-ni-i-e. To the god of Dhuras. v. 5, 37. Probably the same district as Dhuaras.
- YYY . . . . . dhu-ra-a-ni. xxxii. 6.
= YYYY Dhu-lu-(hu)-ri-(ni). A palace. xiii. 1.
EYYYY EY- -ri-a. The people of the palace. xiii. 75.
$=-Y Y$ Dhu-me-is-ki. Of the city Dhumeskis (near Malatiyeh). 1. 28.
$=-1 Y$ Dhu-me-is-ki-ni-ka-i. Of the clan of Dhumeskis. 1. 11.
$-=Y$ Dhu-us-pa-(a)-e $-=$ YY. Dhuspas (Tosp, the modern Van). xx. 8 ; xxii. 6 ; xxvi. (1,) 7 ; xxri. (2,) 6 ; xxxiii. 21 ; xhnii. 8 ; li. iii. 1 ; lii. We should probably read Dhuspae-inaini 'the city of Tosp.' This was distinguished from the inanila or city of the rock subsequently built and fortified by Argistis and Suriduris II.
$\rightarrow$-YY Dhu-us-pa-a - =YY. xxvii. 14 ; xxix. 12 ; xxxvi. 10 ; 1. 34 ; lvi. i. 4, ir. 6.
- =YY Dhu-us-pa. xxxv. 9.
$=-\prod$ Dhu-us-pa-ui-na-hu-e $->$. To the god of the Tospians. ₹. 14.
- =Y Dhu-us-pa-na-hu-e -y. To the god of Tosp. ₹. 53.
- Y Dhu-us-pu-a. To the Tospian god. $\quad$ т. 21.
E.
\& E-ba-a-ni-i-e. Countries. xxx. 25, 26 ; xxxviii. 41 ; xxxix. $9 ;$ x1. 17, 43. See $\uparrow$-ni-e.

At E-ba-ni-e. xxxiii. 8, 9 ; xxxvii. 17 ; xlr. 37.
※ E-ba-a-ni. xxx. 9 ; xl. 58 ; xlix. 5 ; lv. 16.
it E-ba-ni. xxxri. 6 ; xxxr.A. 9 Obr. ; xlix. 12.
\& E-ba-a-ni-i-e-di. Into the land. xxxix. 56.
t4 E-ba-ni-e-di. xxxix. 11 ; xliii. 53 ; xlix. 5.
t. E-ba-a-ni-a. The people of the land. xxxii. 3; xliii. 4.
$\pm$ E-ba-ni-a. xxxix. 13.
E-ba-na. xlix. 26.
ti E-ba-a-ni-a-tsi-e. The chief (?) people of the land. xlix. 19.

E-ba-ni-a-tsi-e-di-ni. xxx. 28 .
E-ba-ni-e-da-e-di-ni. People of the (three) lands. xlv. 8 .
E-ba-ni-hu-ka-ni. The race of the land. xxxix. 7, 31 .
E-ba-ni-hu-ki. Part of the land. xxxix. 1, 25 .
E-ba-ni-hu-ki-e-di. (Loc.) xlv. 10 .
with the preceding, proves that, $u$ is an adjcetival
suffix which may be omitted without injury to the
sense).
E-ba-ni-na-hu-e -4. To the god of the land.
v. 18, 56 . v. 18, 56.

E-ba-hu-si-i-e. Belonging to the land (dat. pl.). xi. 5. This adjective is formed from ebas, instead of the derivative eba-nis.
The Iban of Kedrenos (p. 394) may be ebanis rather than Biainas.
(4 ${ }^{4}$ ) E-di-a-ni. The land (or city ?) of Edias (in Georgia). xlix. 14.
. . . e-gu-du-da-a. liv. 5.
E-ha. This. v. 25, 73 ; xiii. 3 ; xliii. 16,78 ; xlviii. 29.

- =Y E(?)-ḳa-ar-su. Of the city Ekarsus (near Mush). xxxr.A. 5 Obv.
E-ki(?)-ma(?)-ni. xliii. 76. Perhaps 'offerings.'
- F E-li-a-ha-a. To the god Eliahas. v. 16.
-Y E-li-e-ha-a. v. 54.
$\Rightarrow$ E-li-ip-ri-i-e. To the god Elipris. v.41. See Ipris and Lutipri. - * E-li-ip-ri-e. v. 8.
- =Y E-ra-dha-da-hu-ni. The city of Eradhadaus (bordering on the Minni). xxxix. 58.
-FY E-ra-dha-da-e-hu-da xxxix. 58.
Et E-ri-a-i-ni. The country of Eriais. 1v. 11.
E-ri-a-khi. The son of Erias (king in Georgia). xxxiv. 2; xliii. 48 ; xlv. 36 ; xlvii. 3.

E-ri-ya-khi. xxxiv. 8.
E-ri-a-khi-ni-ni-e. xxxvii. 11.
E-ri-da-bi(?). xlvi. 18.
$=$-YY E-ri-di-a-ni. The city of Eridias. r. 16. Sce Irdiya.
Y E-ri-me-na-khi-ni-s. The son of Erimenas (Ruśas of Tan). lii.
Y E-ri-me-na-a-khi. lii.

- E-ri-na-a. To the god Erinas. r. 10, 43.
t\& E-ri-nu-i-di. Into the land of Erinus. xxix.B. 2. Perhaps the island of Aghthamar.
E-śi. Laws. xxi. 2 ; xxxr.A. 8 Obr.; xlv. 22, 40. E-śi-i. liv. 7.
E-śi-ni-e. Regulations, inscriptions. xxxi. 25. E-śi-i-ni-e. xix. 15. E-si-i-ni. xxriii. 4. E-śi-ni. xxi. 5 ; xxix.B. 6 ; xxxiv. 11; lir. 4. E-síni-ni. (Adj. in -nis.) xliv. 12. E-si-a. Lavgivers, governors. xlv. 17. E-śi-e-ya-ni. lvi. i. 6, iii. 4.
tit E-ti-hu-ni. The land of Etius (Georgia). xliii. 34.
t E-ti-hu-ni-ni. The land of the Etiuians. xxxvi. 2; xxxrii. 21 ; xxxriii. 25 ; xliii. 41 ; xlv. 28.
Et E-ti-hu-ni-i-e-di. (Loc.) xliii. 47.
Eti-hu-ni-e-di. xlix. 13.
\$ E-ti-hu-khi-ni. Sons of the land of Etius. xxxrii. 22.
ti E-ti-hu-khi-ni-da. xxxi. 3, 12.
EA-ti-hu-khi-na-e-di. In the land of the sons of Etius. xxxi. 7.

E-u-ri-i-e. To the lord (s). xii. 4; xlviii. 1. From a root e (cp. giss-uris). Interchanges with -1 , which see.

E-hu-ri-i-e. x. 7: xrii. 2; xxri. 3; xxrii. 2; xxix. 2; lii.

E-hu-ri-e. г. 1, 32.
G.

Ga-la-zi. Altars (?). xi. 4. Comp. bur-galada. For the termination cf. armuzi.
FTY Gar-bi-e. Stones. xxxii. 7. See karbie. Correct (karbis), p. 421.

Gar-bi. xxxrii. 26 ; xxxix. 62.
Ga-ri-ni. xxxix. 62. Should perhaps be read marini.
Ga-śu-li-(?na). lvi. i. 9.
Gi-e-i-is. Images. r. 28, 77. The nominative pl. seems here to have taken the place of the acc.

Gi-e-i. (Acc. pl.) xiii. 2; xlir. 11.
Gi-e-i-si-da. Place of images. iii. 1, 2.

1- Gis-la-a-i-e and gis-la-a-e. Of the mother. xxiii. 1.
Gis-su-hu-ri-e. To the mighty (dat. pl.). lii.
Gis-su-ri-i-e. xxxix. 46 ; xliii. 11, 33.
Gis-su-ri-e. xxx. 1 ; xxxi. 5 ; xxxiii. 2 ; xxxiv. 1 ; xxxri. 1,3 ; xxxrii. 17 ; xxxviii. $5,7,25,51$; xxxix. 20 ; xl. 15, 42, 67 ; xliii. 70; xlv. 27, 30 ; xlvi. 2 ; xlix. 1,$3 ; 1.1$; lv. 1.

Gis-su-ri-i. xxx. 3 ; xxxi. 8 ; xxxiii. 5 ; xxxiv. 4 ; xxxvii. 19 ; xxxviii. 27 ; xxxix. 4, 29, 54 ; xl. 33 , 52; 1. 4.
Gis-su-ri. xlvi. 9 ; 1. 17.
Gi-is-hu-ri•e. $\quad 78$.
Gi-is-hu-ri. $\quad$ г. 28.
gu-di. rii. 3.
Gu-li. After dusk (?). v. 26, 74.
\# Gu-lu-ta-a-khi-kha. The land of Gulutakhikhas (on the Araxes). xlv. 36.

Gu-nu-sa-a. For a spoil. xxx. 8; xxxvii. 26; xxxix. 63 ; xliii. 40, 75 ; xlix. 14, 16, 17 ; l. 20.

Gu-nu-hu-sa-a. xxxviii. 14.
Gu-nu-sa. liii. 5.
Gn-nu-se. (Pl. acc.) xliii. 16, 78.
=- $Y$ Y $Y \lll<G u-n u-s i-n i-i . \quad$ Slaves. xlix. 20, 24, 27.

Gu-nu-si-ni-e. xxxvii. 34; xlvi. 19.
Gu-nu-si-ni. 1. 17.
Gu-nu-si-ni-ni. 1. 18.
\# Gu-hu-pa-a-ni. The land of Gupas (near Palu). xxxiii. 10.
it Gu-pa-ni. xxxiii. 4.
it Gur-ku-hu-e. Of the land of Gurkus (bordering on the Minni). xliii. 13.

Gu-ru-khu. Wild bulls (?). lvi. ii. 3.
Gu-ru-khe. lvi. iv. 2.
Gu-si-i. Of bronze (?). 1. 25.

## H.

Ha-a-kha-a-hu. Chariots. xxx. 20.
Ha-a-li. For sacrifice. $\nabla .3,35,81,82,83$. Ideograph .

Ha-al-du-bi. I changed, removed. xxx. 15 ; xxxvii. 8, 11 ; xxxviii. 16 ; xl. 55 ; xlv. 18 ; xlix. 18 ; 1. 13. Compounded of hal 'sacrifice ' and du for tu 'bring away.'

Ha-al-tu-bi. xxxiv. 13 ; 1. 26. For the interchange of $d$ and $t$ see p. 427. Perhaps, however, haldubi is compounded with $d u$ 'destroy' rather than $t u$. Compare zaduali and zatuali.
Ha-al-du-hu-ni. Me changed. sxxiii. 16.

- Ha-na-ap-sa-e. To the god ITanapsas. v. 7, 40.

Ha-a-rat-ni. The city of Harat (near Malatiyeh). 1. 29.
Y Ha-ar-śi-ta-ni. Harśitas (Assur-dan of Assyria). xxxriii. 52.

- H Ha-a-ru-ba-a-ni-e. To the god Marubanis. 5.59.
- Y Ha-a-ru-ba-i-ni-e. $\quad$ v. 21.
=-Y斤 Ha-se. Men. xxxviii. 43 ; xlv. 12.
Ha-se ${ }^{1} \lll<$. xlix. 9, 19.
На-a-se. al. 59.
Ha-se. xxxvii. 22, 26, 30 ; xxxviii. 18 ; xxxix. 59, 64 ; xli. 7 ; xliii. $26,40,50,80$; xlix. $23 ; 1.20$; lv. 14.

Y Ha-za-i-ni-e. Hazas (Aza in the Assyrian texts), king of the Minni in the time of Argistis. xl. 73.

Ha-za-ni. liv. 1.

## For HU see under U.

I.

I-bi-ra-a-ni. Men (?). xxx. 18. I-bi-ra-ni. xix. 11.

-     - YY Id. . ku . . a-hu-ni-e-di. In the city of Id . . ku . . aunis. xxxrii. 29.
I-e-s. Which, what. xx. 14; xxii. 10 ; xxx. 32 ; xxxi. 30 ; xxxir, 19 ; xxxp.A. 9 Rer.; xlir. 10 ; xlriii. 20. See $i$-hu.
※I-ga-a-e. Of the land of Igas (N.W. of Lake Van). xlv. 39.
IA I-ga-ni-ni. The land of Iganis. xxxvii. 11.
I-ku-hu-ka-a-ni. A series of goods, property. xxxii. 3.
I-ku-ka-a-ni. xxxrii. 5, 24 ; xlviii. 28 ; xlix. 22.
I-ku-ka-ni. xxxriii. 40 ; xxxix. 8, 33 ( 60 ?) ; xliii. 43, 81 ; xlviii. 30 ; xlix. 13 ; 1. 12 ; li. iii. 5.
I-ku-ka-ni-e-di-ni. Men of property. li. 4.

I-na-a-i-ni. A city. xxxrii. 2. Inas 'city' may be connected with inus 'a rock-chamber.'

I-na-a-ni. lri. iii. 5.
I-na-i-ni-e. xxi. 15.
I-na-i-ni. xx. 18 ; xxii. 13 ; xxriii. 11 ; xxx. 35 ;
xxxiii. 27 ; xxxiv. 23 ; xliv. 19 ; xlviii. 23.

I-na-ni. xx. 18 ; xli. 15 ; xlix. 11; l. 40.
I-na-a-ni-da-e. The place of the city, the capital (i.e. the new upper town built on the rock of Tan by Argistis, as opposed to the old lower town of Tosp; cp. Greek $\ddot{a} \sigma \tau v$ and $\pi o ́ \lambda(s) . \quad$ xl. 11. ${ }^{1}$
I-na-ni-e-da. xxxix. 45.
I-na-ni-da. xxxvii. 16 ; xxxviii. 3, 24, 50 ; xxxix. 19 ; xl. 41,66 ; xli. 11 ; xliii. $10,32,69$; xlix. $18,29$.

I-ni-i. This (always precedes its noun except in lr. iii. 10). xxxiii. 12.

I-ni. iv., xiv., xv., xrii. 3,5 ; xix. 2 ; xx. 10 ; xxi. 2, 10 ; xxii. 2, 7, 10 ; xxiii. 2 ; xxiv. 5 ; xxv. 3 ; xxri. 4 ; xxvi. (2,) 3 ; xxvii. 3 ; xxviii. 3 ; xxix. 3 ; xxix.B. 9 ; xxx. 29 ; xxxi. 21,26 ; xxxiii. 22 ; xxxy. 3 ; xxxv.A. 2 Rev.; xxxrii. 1; xlir. 4 ; xlviii. 2 , 16 ; 1.35 ; li. 3 ; lii., liv. 7 ; lr. 17 ; lvi. iii. 10 .

I-ni-li. After this. r. 2, 33 ; x. 8 ; xvii. 4 ; xriii. 3.
I-ni-da. Here. xx. 2, 12 ; xxi. 12 ; xxii. 9 ; xxx. 31 ; xxxi. 27 ; xxxiii. 24 ; xxxir. 17 ; xxxv.A. 6 Rer. ; xliv. 7; xlviii. 18; 1. 36.
${ }^{1}$ M. Guyard believes inanida to signify 'spoil,' and would translate the stereo. typed phrase : inanida arniusinida $\dagger$ Z $\boldsymbol{X}$ aduni' the spoil and tribute in one year X has made.' $D a$ is used to form abstracts, and as the phrase occurs at the end of the account of a campaign and an enumeration of the booty carried off in the course of it, it would seem naturally to be a summing up of what had been done. Moreover, in xlix. line 29 appears to be parallel to line 26. The repetition of the statement that the king had built the citadel of Van is unmeauing, and arniusinida could easily be derived from the root ar 'to bring.' If the interpretation of M. Guyard is adopted, inani in the execration formula would signity 'property.' On the other liand, zadu means properly 'to build,' and arnuyada seems to be 'castles.' But the expression alusi inani, parallel to aluéi Dhuspae, in lvi. iii. 5, really settles the question. See also xlix. 11. We must further remember that $-n i$ is the phonetic complement of $-Y Y$, and that the root of inas and inus is probably the same, while no verb from a root in, signifying 'to spoil' or 'earry away,' has been found in the inscriptions. In the execration formula the ascending scale is uaturally: the offender himself-his family - his name - his city. For his 'property' to come at the end, instead of 'city, would be an anti-climax.
ti I-nu-hu-a-si. Belonging to the land of Inuas (near Rowandiz). lvi.

- I I-nu-a-na-hu-e. To the god of Inuas. v. 23, 66.

I-nu-ki. Part of a chamber (better than : as a chamber). iii. 1, 2.
I-nu-ka-a-ni. A series of tomb-chambers. xxi. 5.
I-nu-ka-ni. xliv. 11.
I-nu-si-i-ni. Belonging to the chambers. xxi. 3 .
Ip-pu-hu-e. The inundator (a title of Teisbas). г. 4, 36.
Ip-tu-da-i-e. Ife brings an inundation. xliv. 13. A compound of $i p$ and $t u$.
Ip-tu-li-i-c. After bringing an inundation. 1vi. iii. 11.

- Ip-kha-ri-c. To the god Ipkharis. 下. 22. Perhaps a compound of $i p$.
Ipris in El-ipris and Lutipris (which is compounded with lutu 'women'). Comparing euris, gissuris, duris, we find the root to be ip 'to inundate.' Lutipris will be 'women-flooding.'
-     - YY Ir-da-ni-u-ni. The city of Irdanius (near Erivan). xlvii. 4.
- -YY Ir-di-ya. The city of Irdiya. r. 54. See E-ri-di-a-ni.
- $=$ YY Ir-du-a-ni. The city of Irduas (capital of Edias in Georgia). xxxriii. 42.
it Ir-ki . . . The land of Ir-ki . . . (perhaps the same as the next). xxxvii. 31.

A4 Ir-ki-hu-ni-ni. The land of the Irkiuians (among the Minni). xl. 18, 35.

Ir-ku-a-i-ni-i. Of Irkuainis (prince of Irrias). xlix. 15.

-     - YY Ir-ma-a-ni. The city of Irmas (in Georgia). xlix. 16.
- Y Ir-mu-si-ni-e. To the god of Irmusis. r. 9, 41.
$=Y Y$ Ir-hu-i-a-ni. The city of Irvias (in Georgia). xlix. 15.
Ys-lu-bu-ra-a-ni. Istuburas. xxxviii. 41.
it Is-ki-gu-lu-hu-e. Of the land of Iskigulus (near Kalinsha). xliii. 49 ; xlvii. 5.

Is-pu-hu-i-hu-bi. I overmastered. xxxix. 24.
Y Is-pu-hu-i-ni-s. Ispuinis or Isbuinis (' the lordly,' the son of Sarduris I.). iii. 1, 2 ; iv. ; r. 1, 32, 25, 70, $27,75,28,78$.
Is-pu-hu-i-ni-e. lvi. i. 7, ii. 5, iv. 4. Is-pu-hu-i-ni. $\quad$. 24, 68.
Is-pu-hu-i-ni-ni. xxxi. 9.
Is-pu-hu-i-ni-e-khi-ni-e-s. The son of Ispuinis. xix. 2; xx. 2.

Is-pu-hu-i-ni-e-khi-ni-s. $\quad$ г. 79 .
Is-pu-hu-i-ni-khi-ni-s. v. 2, 33, 25, 70, 27, 75, 29; vii. 7; ix. 1,3 ; x. 7 ; xiii. 1,3 ; xir.; xr.; xrii. 3 ; xviii. 2 ; xxi. 1 ; xxii. 2 ; xxiv. 4 ; xxv. 2 ; xxvi. 2 ; xxvi. (2,) 2 ; xxrii. 5 ; xxxii. 1.

I Is-pu-hu-ni-khi-ni-s. xx. 9.
Is-pu-u-ni-khi-ni-s. xx. 2, 9; xxix. 5.
Is-pu-u-ni-khi-ni-i-s. xxxv. 2.
Is-pu-hu-i-ni-e-khi-ni. v. 24, 68.
Is-pu-hu-i-ni-khi-ni-e. xxxiv. 12.
Ys-pu-hu-i-ni-e-khi. xx. 6; xxvii. 10; xxx. 5; xxxiii. 7; xxxiv. 6.
Ys-pu-hu-i-ni-e-khe. xxvi. 5; xxvi. (2.) 4; xxxiii. 18.
Is-pu-u-i-ni-e-khi. xxix. 9.
Is-pu-hu-i-ni-khe. lvi. i. 5, ii. 6.
Y Ispu-hu-i-ni-khi. xxxi. 10.
Is-pu-u-i-ni-khi. xxxv. 6.
Is-pu-u-ni-khi. xx. 6.
Y (Is-pu-i-)ni-ka-i. To the race of $I_{s p u i n i s . ~ v i . C . ~}^{\text {. }}$
Is-ti. For this. xliii. 15.
Is-ti-di. (Loc.) 1. 21.
Is-ti-ni-e. To these. xxxvii. 16; xxxviii. 3, 23, 49; xxxix. 18; xl. 10, 40, 65 ; xli. 10 ; xliii. 9, 31, 68; xlix. 28.

Is-ti-ni-i-e. xxxix. 44.
Is-ti-ni-i. xliii. 76.
Is-ti-ni. xiii. 2 ; xxxviii. 35,36 ; xxxix. 6 ; 1. 7, 21.
Is-ti-ni-ni. Belonging to them. xix. 6 ; xxi. 7,9 ; xxxi. 14 ; xxxviii. 43 ; xxxix. 59,64 ; xl. 59 ; xliii. 26 , 40, 80 ; xiix. $9,19,23$.
Is-ti-ni-hu-e-di-a. The people belonging to them. xxxi. 15.
I-hu. Thus. xxxii. 2 ; xli. 13,17 ; li. iii. 3 ; lvi. ii. 4 , iv. 3. Sce $i$-e-s.
I-hu-da-i-e. He undoes. lvi. iii. 3. For tiudaye with the dental dropped.

I-hu-da-e. xxxi. 28.
At I-ya-a-ni-ni. The land of Iyanis (bordering on the Minni). xxxix. 47, 56.

## K.

Ka-a-di. In battle. 1. 11.
Ka-a-i-hu-kid. In battle or with arms. xxx. 13.
Ki-hu-ki-c. l. 23.
Ka-la-ha-ni. 1. 13.
Ka-am-na-a. Possessions (acc. pl.). xxx. 19.
Ka-am-ni-ni. Belonging to the possessions. vii. 4.
ti Kar-ni-si-e. The land of Har-nisi (Assn. 'fort of the men') on the Hittite border. 1. 13.
Ka-a-ru-ni. Who have given (dat. pl.). xxxiii. 3. See ku-ru-ni. Ka-ru-hu-ni. xl. 32, 43, 44.
Ka-rı-ni-e. xxxiii. 2; lr. 2.
Ka-ru-ni. xxxiv. 2; xxxvi. 2; xxxrii. 17 ; xxxviii. ${ }^{2}$, $6,25,26,52,53$; xxxix. 4, 21, 47 ; xl. 16, 18, 68 ; xliii. $12,13,34,71,72$; xlv. 28 ; xlri. 3,5 ; xlix. $1 ; 1.1$.
Y Ka-tar-za-e. Of Katarzas, a Georgian prince (called Kudhurzas by Argistis; see Kiu-dhur-za-ni-i-ni). xliii. 48; xlt. 35.

Y Ka-tar-za-a. xxxi. 11.
Y Ka-tar-zą-ni-i-e-di. In the (land) of Katarzas. xxxi. 6.
\#A Ka-hu-ri. Of the land of the Fauians (near Malatiyeh). 1. i.
Probably the Kue of the Assyrians; see p. 647.
Kid-da-nu-hu-da. xxxii. 4.
Ki-da-nu-bi. xxxix. 30.
Ki-ri. xxxriii. 17. The reading is doubtful.
Ku-hu-dha-a-di. On departing. xxxrii. 32.
Ku-dha-i-a-di. xliii. 49; xlr. 1.
Ku-dha-a-di. xxxrii. 7, 10, 21, 28, 36; xxxriii. 17 ; xxxix. 40 ; xl. 36,56 ; xli. 6 ; xliii. 25 ; xlix. 5.

Ku-dhu-hu-bi. I departed. xxx. 10.
Ku-dhu-bi. xxix.B. 4 ; xlp. 38 ; 1. 13, 14 ; liii. 7.
Ku-dhu-ni. He departed. $x x x i i .10$.
Ku-hu-i-gu-hu-ni. He ecrote, engraved. xxrii. 6; xxix. 6.
Ku-i-gu-ni. xxxiii. 12.
Ku-gu-ni. xxri. 4; xxri. (2,) 3 ; xlriii. 3.
Ku-i-gu-bi. I wrote. lvi. iii. S.
Ku-gu-bi. vi.B. 2.
it Ku-la-si-ni. The land of Fulasis (near Bustus). xxxix. 5. Ku-ul-me-i.e. Strongholds. xliii. 18.

Ku-lu-di. In the district. lvi. iii. 9, 14.
? (?) Ku-lu-a-i. Of the land (?) of Kuluais. lvi. i. 7.
Ku-ri-e-da. Gifts (abstract from root kuru' to give'). xxx. 14, 1. 24.

Ku-ru-hu-ni. The givers (dat. pl.). xl. 33; xlvi. 8. See karuni.
Ku-ru-ni. xix. 5 ; xxx. 3, 4 ; xxxi. 7, 8 ; xxxiii. 4, 5 ; xxxiv. 4, 5 ; xxxvi. 3 ; xxxvii. 19 ; xxxviii. 7, 27 ; xxxix. 29, 54 ; xl. 51, 52 ; xliii. 36,73 ; xlv. 29, 30 ; xlvi. 9 ; xlix. 2, 3; l. 4.
\& Ku (?) . . ru-pi-ra. (The first character may be lu.) xxxrii. 28.

## KH.

Kha-i-di-a-ni. Worlmen (?). li. 6. A derivative in $-a$ and $\cdot d i$ from root khai.

Kha-i-ti-ni. Monument (?). xvi. 4.
Kha(?)-a-i-ti(?). xri. 6.
Kha-a-i-tu-hu. Monuments (?). xxxii. 4.
Kha-i-la-a-ni. The . . . . xl. 74.
Kha-i-ni. A possession(?). lvi. ii. 3.
\& Kha-khi-a-hu-e-e-di-a. The people of Thalhias. xxxriii. 43.

- Khal-di-i-s. Khaldis (the supreme god of Van). xxviii. 7; xliv. 14. Also written Aldis, which sce.
- Khal-di-is. xlviii. 26; li. iii. 2.
- K Khal-di-s. xix. 9, 18; xx. 15; xxi. 10; xxii. 11 ; xxx. 33 ; xxxi. 30 ; xxxiii. 25 ; xxxiv. 20 ; xxxy. 11 Rev.; xli. 13 ; xlviii. 21 ; l. 38 ; li. 10 ; lvi. iii. 13.
- Khal-di-i-e-i. Of Khaldis. xxiv. 7 ; xxri. 3.
$\Rightarrow$ Khal-di-i-e. xii. 4 ; xvi. 6 ; xvii. 2 ; xxvii. 1 ; xxix. 1; xlviii. 1.
- Khal-di-e. v. $1,32,3,34,35,4,36,27,76,30,81$, 31, 82 ; vii. 1 ; x. 1 ; lii. ; lvi. ii. 2.
- H Khal-di-i. x. 2 ; xix. 5 ; xxx. 3 ; xxxi. 7 ; xxxvi. 2; xxxvii. 19; xxxriii. 7, 27; xxxix. 4, 29, 54; xl. 32,51 ; xliii. 36,73 ; xlv. 29 ; xlviii. 8 ; l. 4.
- Y Khal-di. x. 1 ; xvi. 3 ; xvii. 4 ; xviii. 3 ; xxxir. 4 ; xliii. $15,76,78$; xlix. 2 ; lii.
- Khal-di-*. xix. 7.
-> Khal-di-i-ni. riii. 4 ; xxxrii. 17 ; xxxriii. 5 , 29 ; xl. 33 ; l. 1.
-2 Kihal-di-ni. r. $12,49,13,50,17,54,20,58,24$, $67,25,73$; xi. 5 ; xxx. 1, 3, 6 ; xxxi. 5, 8 ; xxxiii. 1,5 ; xxxir. 4,7 ; xxxr. 1 ; xxxvi. 1,3 ; xxxrii. 19 ; xxxviii. 7, 12, 25, 27, 51 ; xxxix. 4, 20, 29, 46, 54; xl. 14, 42, 52, 67 ; xliii. 11, 33, 51, 70; xlv. $29,30,32$; xlvi. 1,9 ; xlix. 1 ; 1. 4 ; lvi. iii. 7.
- F Khal-di-ni-e. lr. 3.
- Khal-di-i-ni-ni. To the (gods) belonging to Khaldis. xrii. 1; xxy. 1; xxvii. 7 ; xxix. 7 ; xxx. 4 ; xxxrii. 19 ; xl. 34, 70, 81 ; li. 1, iii. 1, 7.
- K Khal-di-ni-ni. r. 17,54 ; vi.A. 1 ; viii. 2 ; xiii. 1 ; xтiii. 1; xix. 1; xx 1, 4; xxii. 1, 4; xxir. 1 ; xxri. 1; xxxii. 1; xxxiii. 6, 17 ; xxxir. 5 ; xxxr. 5; xxxfi. 4, 7; xxxviii. 7, 15, 28; xxxix. 5, 23, 30, 48, 55 ; xl. 21, 46, 52 ; xli. 12, 16 ; xlii. 1 ; xliii. 36,73 ; xlr. 30 ; xlvi. 10 ; xlvii. 1 ; xlviii. 4 ; xlix. 3,6 ; 1. 32 ; lii. ; liii. 1 ; 1r. 1.
- K Khal-di-e-di-e. (Loc.) 1. 8.
- Y Khal-di-e-di. xxxrii. 23 ; xxxix. 2, 26 ; xl. 25, 47, 75 ; xliii. 20,44 ; xlvi. 24.
- K Khal-di-di. xxxrii. 3 ; xxxriii. 8, 38 ; xxxix. 50 ; xli. 2.
- Khal-di-i-a. To the people of Khaldis. xlix. 28. Khal-di-a. xxxrii. 16 ; xxxviii. $3,23,49$; xxxix. 18, 44 ; xl. 10, 40, 65, 75 ; xli. 10 ; xliii. $9,68$.
- Khal-di-na. The land of lihaldis. x. 4; xi. 3; xri. 2, 4, 5, 6.
- Khal-di-na-ni. xi. 2 ; lvi. iii. 2.
- Khal-di-na-hu-e. To the god of the land of Khaldis. г. $7,40,13,50,16,54$.
- Khal-di-ka. To the race of Khaldis. 1vi. ii. 4.
- Khal-di-ni-da-si-i-e. To the god of the place of Khaldis. r. 15, 54.
$=$ YY Kha-al-di-ri-(ul?)-khi. The city of the Khaldiriulians (?). xxx. 26.
* Khal-ra-i-ni-e. To the god Thalrainis. $\quad$ v. 8, 41.

Kha-lu-li. vii. 2; x. 3.

- =YY Kha-na-li-ni. The city of Khanalis (in the neighbourhood of Rowandiz). lvi. iii. 6.
- Y Kha-ra-a. To the god Kharas. r. 11, 46.

Kha-ar-kha-a-ru. Dug up (acc. pl.). xli. 18.
Kha-ar-khar-ni-e-i. Exeavated (adj. in -nis). xxi. 4. The 'excavated' chambers in the rock of Van have given it its modern name of Khorkhor.
Kha-ar-khar-su-hu-bi. I dug up. xxxviii. 19; xxxix. 57 ; xlv. 7. Su here forms a causative conjugation as in $k h a-s u-b i$.
Khar-kha-ar-su-bi. $\quad$ xxxviii. 44 ; xliii. 79; 1. 16.
Khar-khar-su-bi. xxxvii. 7; xl. 58; xlix. 8, 23.
Khar-khar-sa-bi-i-e-s. Digging up (part. pres.). xli. 20.
Kha-a-si-al-me. May they make dwoll in triumph (?). A word of very doubtful meaning. Apparently a compound of al 'inhabit' and khasu 'cause to possess.' xl. 50 ; xliii. 23.

Kha-si-al-me-e. l. 10.
Kha-si-al-me. xxxviii. 10, 40 ; xxxix. 3, 28, 52 ; xl. 29, 77 ; xli. 4.
Kha-su-bi. I caused to possess. xliii. 41. The causative in $\delta u$ of khau-bi: see kharkharsu-bi above.
\& Kha-a-te. (Land of) the Hittites. xxxviii. 5.
t4 Kha-a-te-i-na-a. Of the land of the Hittites. xxxiii. 11.
it Kha-ti-na-i-di. Into the land of the Hittites. xxxviii. 12.
ti Kha-ti-na-a-tsi-e. Chief (?) of the land of the IIttites. xxxviii. 15.
ti Kha-ti-na-as-ta-ni. Place of the land of the Mittites. xxxii. 7.
-YY Kha-at-ka-na-ni. The city of Khatkanas (near Rowandiz). lvi. iv. 3. Called Atkanas v. 19.

Kha-a-hu-bi. I conquered, possessed. xxxvii. 9, 25, 27, 31; xxxviii. $14,41,42$; xxxix. $9,56,63$; xli. 20 ; xliii. $40,47$.

Kha-hu-bi. xxx. 7, 8 ; xxxiv. 12, 19; xxxrii. 7, 12, 21, 26 ; xxxviii. 13,14 ; xxxix. 38,58 ; xl. 35,54 ; xli. 5 ; xliii. $3,54,75$; xlr. (2,) 35 ; xlvii. 3,4 ; xlix. $5,7,14,16,17,19,22$; 1. 20 ; lvi. ii. 3.

Kiha-u-bi. liii. 5.
Kha-hu-ni. Who has conquered (ace.). xxxiii. 8, 10 ; xxxvi. 6.

Kha-a-hu-da-i-e. Ito robs. xxi. 10.
Kha-hu-li-i-c. After conquering. 1vi. iii. 2. See khubi and khuada.
$=$ - YY Kha-a-za-a-ni. The city of Khazas (near Malatiyeh). 1.28.
Y Khi-la-ru-a-da-ni. Ihhila-ruadas (king of Malatiyeh). xxxviii. 6; 1. 2, 23. See pp. 403, 588.

Y Khi-la-ru-a-da-a-i. (Genitive.) 1. 19. The name may also be read ȟhite-ruadas.
Khu-bi. I conquered, destroyed. xxxriii. 13; xl. 54. A contracted form of khau-bi.

Khu-u-a-da. Destroyed (local case). xx. 3.
Khu-a-da. xx. 3 ; xxi. 8.
Khu-da-i-e. xxxi. 22.
Khu-dhu. Portions. xliii. 12, 16, 78 ; xlriii. 28.
Khu-la-hu-c. Belonging to the king. li. iii. 10. More probably kihutehue; see kihutiadi.
EYY Khu-ra-a-di-e. Soldiers. xxxriii. 53.
EYY Khu-ra-di-i-e. xxxix. 25.
Ery- Khu-hu-ra-di-i-a. Soldiery. xxx. 22.
ZEYーKhu-ra-a-di-ni-da. Camp. xlvi. 15.

Ely-Khu-ra-di-ni-da-hu-e-da. Site of the camp. xxxvii. 5 ; xxxix. 1.

- Y Y Khu-ra-di-na-hu-e $Y \lll<$. Belonging to the place of the soldiers. xxxii. 10.
Khu-ru-la-a-i. For sacrifices (?). r. 74. Probably from the same root as kihura-dis.

Khu-ru-la-i. r. 26.
t Khu-sa-ni. The land of Khusas (N. W. of Lake Van). xxxrii. 8 ; xlr. 2.
H-r Khu-su. Flesh. liv. 4.
Khu-su. xi. 4.
Khu-hu-śi-e. Holy. xiv.; xт.
Khu-ti-i-a-di. Among the king's people (?). xlvi. 23. This will be the meaning if kihutehue should be read instead of khulahue. But 'by the help of' is also a possible signification, though grammatically not very defensible.
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Khu－ti－a－di．xxxvii．3，23；xxxviii．8， 38 ；xxxix．2， 26,50 ；xl． 24,47 ；xli． 2 ；xliii．20， 44 ；1． 7.
－－Y Khu－za－a－na－ni．The city of Khozanas（now Palu）．xxxiii．
9．Khozanas is the modern prorince of Khozan．
－＝｜｜Khu－za－na－a－ni．xxxiii． 3.

K．
\＄4．Ka．．．．．a－ni．xxxviii． 18.
Ḳa－ab－ka－ru－hu－bi．I approached．xl． 80.
Ka－ab－ka－ri－da－ni．Place of approach．г．25， 73.
Ka－ab－ka－ab－ru－li－ni．After approaching．1． 22.
Ka－ab－ḳa－a－ru－lu－hu－bi．I gave approach．xli．17．Com－ pounded with lubi．
Y Ka－bi ．．．The son of Baltul in the district N．W．of Lake Van． xlv． 16.
It Ka－da－i－ni．The land of Tradais（N．W．of Lake Van）．xlv． 10.
$-=Y \dot{Y} \mathrm{Ka}-\mathrm{du}$－ka－ni－hu－ni．The city of Kadukanius（in Bustus）． xxxix． 38.
Kar－bi－e．See gar－bi－e．
－Ki－li－ba－ni．To the god Kilibanis．下．18， 55.
Y Ka－dhur－za－ni－i－ni．Belonging to Ḳudhurzis．xxxvii．18．Also called Katarzas，which see．
－K Ku－hu－e－ra－a．To the god Kueras．г．8， 40. （一半）Ku－e－ra．vi．A． 4.
－＝Y K Ku－ul－bi－tar－ri－ni．The city of Kalbitarris（near Malatiseh）． 1． 30.
$=$＝Y Ku－ul－me－e．The city of Kulmes（near Mush）．xxxv．A． 4 Obv．
－Ku－me－nu－na－hu－e－To the god of the land of Tiumenus． г． $14,52$.

## L．

La－ku－ni．They have given（？）．v．26．Possibly a softened form of lakuni．
La－ḳu－ni．Who have given；a present．xxxiv． 3 ；xxxviii． 26 ；xlvi． 6；xlix． 2.

La－e－ḳu－ni．1． 3.

La-kiu-hu-a-da. A present. xxxviii. 54 ; xl. 44.
La-c-ku-hu-a-da. xl. 19 ; xlv. 28.
La-e-ku-hu-a-da-e. xliii. 35.
La-ḳu-a-da. xxxrii. 18 ; xxxviii. 6 ; xxxix. 22, 48 ; xliii. 14, 72.

La-la-ni (?). xxxir. 10.
Lu-hu-bi $I$. . . . l. 18. Sce kabkaru-lubi.
Lu-hu-e-se (?). Gifts (?). r. 27, 77.

- = IY Lu-nu-hu-ni-ni. The city of Lununis (near Armarir). xxxif. 13, 14, 19.
\# Lu- . . ru-pi-ra. xxxvii. 28. The first character may be Tu.
ti Lu-sa-a. Of the land of Lusas (in Georgia). xxxi. 11.
\& Lu-sa-e. xlr. 35, 38.
\$4 Lu-sa-i-ni-c-di. Into the land of the Lusians. xxxi. 6.
${ }^{5}$ Lu-tu $Y \lll$. Women (acc. pl.). xlix 9, 19, 24, 26; lv. 14.
人 Lu-tu. xxxrii. 22, 26 ; xxxviii. 18, 20, 43 ; xxxix. 35 ; xl. 59 ; xli. 7; xliii. 40, 50, 80 ; xlix. 23 ; l. 20 ; liii. 6.


## 3.

Ma. IIs, its. xxxrii. 26 ; see also xxxix. 62; xliii. 39. The word is probably a misreading for mu. Cf. note on p. 439.
-FY Ma-ka-al-tu-ni. The city of Mrakaltus (N.W. of Lake Van). xxxii. 11.

Ma-na. A maneh (borrowed from Assyrian). xlv. 20, 21, 24.
¿ Ma-na-a. The land of the Minni (west of Lake Urumiyeh). xxxix. 40. See pp. 389, 400.
it Ma-na-a-ni. xl. 43, 68, 80; xliii. 13.
t Ma-na-ni. xxxix. 47 ; xl. 16, 73 ; xliii. 34 ; xlix. 1.
t Ma-a-na-a-i-di. (Loc.) xxxii. 2 ; xxxix. 60.
A4 Ja-na-i-di. xl. 35 ; xliii. 24, 38.
it Ma-na-da-(:)-śi-ra-ni. An uncertain word. xl. 74.
Ma-a-ni. Him. xix. 19 ; xx. 16 ; xxi. 13 ; xxx. 34 ; xxxiii. 26 ; xxxir. 21 ; xliv. $16 ; 1.26,38$. Sce mei and manini.

Ma-ni. xxriii. 9 ; xlviii. 21.

- =YY Ma-ni-nu-hu-i. Of the city of Mraninus (near Malatiyeh). l. 29.

Ma-nu-s. Each. ャ. 2, 34.
Ma-a-nu. xlix. 15. Cf. Ada-manu, Baddi-manu.
Ma-nu. xxx. 17; xxxii. 10; xlix. 14, 17; (?1.6); 1. 20. Ma-ni-ni. (Dat. pl.) г. 24, 67 ; xix. 6. The word may belong to mei, mani, rather than to manus.
Ma-nu-da-e. In each place. liv. 8.
Ma-ri-ni. xxxvii. 26. See garini.
\# Ma-ar-mu-hu-a-ni. The land of Marmuas (among the Hittites). xxxviii. 18.

Ma-a-śi-ni-e. To the powers. xxxviii. 51 ; xxxix. 46.
Ma-śi-ni-i-e. xxxiii. 1.
Ma-śí-ni-e. xxxvii. 17 ; xxxviii. 25 ; xxxix. 20 ; xl. 15 , 42, 67 ; xliii. 11, 33,70 ; xlv. 27 ; xlvi. 2 ; xlix. 1 ; lv. 1.

Ma-śi-ni. xxx. 1; xxxi. 5 ; xxxiv. 1; xxxvi. 1; xxxviii. 5 ; 1. 1.
Ma-a-śi-ni-e-i-a-ni. Officers. xxx. 23.
Ma-śi-ni-ya-ni. xlv. 26.
(
Me. Of him, of it. lvi. iii. 4, 8 .
Me-i. xx. 17 , 18 ; xxi. $14,15,16$; xxii. 12,13 ; xxriii. 11 ; xxx, $34,35,36$; xxxiv. 22, 23 ; xliv. 18,19 ; xlviii. 23,24 ; l. 39,40 ; li. 5.

Me-e-s. He. xxx. 16; xlv. 19, 22 ; xlix. 18.
Me-s. xlv. 40.
Me-i-a-da. The place of it. xlix. 11. [Possibly two words, ' of it, and.']
Me-da. liv. 5.
Me-e-si-ni. His, its. xxxiv. 14; 1. 26.
Me-si-ni. xxx. 15 ; xlv. 18 ; xlix. 17 ; lv. 14.
Me-i-e-si. v. 31, 82.
Mu. His, its, their. xxxvii. 5, 14, 40 ; xxxviii. 21, 46 ; xxxix. 33 ; xl. 2, 37 ; xli. 8,11 ; xliii. $27,32,43$; xlviii. 28,30 ; xlix. 13,22 ; li. iii. 5 . See ma.

Me-da-a-i-ni. Perhaps the name of a river. xxxviii. 17.
Me-la-a-i-ni. lv. 10, 12.
$=$ =YM Me-li-dha-i-e. Of the city of Malatiyeh. xxxiii. 16.
$-=Y \mid \mathrm{Mc}$-li-dha-a-ni. xxxriii. 16; 1.14, 22.

- =YY Me-li-dha-al-khi-e. The inhabitants of Malatiyeh. 1. 2.
- YY Me-e-lu-i-a-ni. The city of Meluias (near Malatiyeh). 1.31.
$=$ =YY Me-na-ab-su-ni-e-di. Into the city of Menabsu(ni)s (in Bustus). xxix. 8.

Me-i-nu-hu-a-s. Menuas (son of Ispuinis). xxiv. 3 ; xxvii. 4.
Y Мe-i-nu-a-s. viii. 3.
YMe-nu-hu-a-s. จ. 1, 32, 70, 27, 75, 29, 79; xxi. 6; xxvi. (2.) 1 ; xxix. 4 ; xxx. 18.

Y Мe-nu-a-s. $\quad$ г. 25 ; vii. 7; ix. 1,3 ; x. 7 ; xii. 1,3 ; xiv.; xv.; xvii. 2 ; xriii. 2; xix. 1; xx. 1, 9 ; xxii. 1, 7 ; xxv. 2 ; xxri. 2 ; xxviii. 1 ; xxix.B. 10 ; xxx. 6, 12, 29 ; xxxii. 1 ; xxxiii. 22 ; xxxif. 7 ; xxxy. 2 ; xxxv.A. 1 Rev.; lri. i. 2.
Me-nu-hu-a-i. Of Menuas. xxr. 4.
Me-nu-a-i. xi. 4 ; xxii. 3.
Me-nu-hu-a. xix. 6 ; xxxiv. 11, 15.
Me-nu-a. r. 24,68 ; xix. 9 ; lvi. ii. 6.
Me-i-nu-hu-a-ni-i. Belonging to Menuas. xxr. 6.
Me-i-nu-hu-a-ni. xxrii. 9.
Me-nu-a-i-ni-e-i. xxiii. 1.
Me-nu-a-i-ni. xix. 12.
Me-(i)-nu-a-ni. xx. 5 ; xxii. 4 ; xxvi. 5 ; xxri. (2.) 4 ; xxix. 8 ; xxx. 5 ; xxxi. 9 ; xxxiii. 7, 18 ; xxxiv. 6 ; xxxv. 6; lri. i. 4.
Me-nu-a-ka-i. For the race of Menuas. xxxiv. 3.
Me-i-nu-hu-a-khi-ni-e-s. The son of Menuas. xxxix. 53 ; xliii. 77 ; xliv. 2.
Me-nu-a-khi-ni-e-s. xxxriii. 11 ; xliii. 37.
Me-nu-a-khi-ni-s. xxxriii. 8, 23, 32, 38, 56; xxxix. 28, 44 ; xl. 31, 51, 71 ; xli. 1, 10 ; xliii. 19.
Me-nu-a-khi-ni-i-e. (Gen.) xl. 45, 69.
Me-nu-hu-a-khi. (Acc.) xxxvii. 20 ; xxxviii. 28 ; xlv. 32.

Me-nu-a-khi-e. xxxri. 5.
Me-nu-a-khi. xxxri. 8; xlvi. 12.
Me-nu-a-khi-na-a-di. In the district of the son of Menuas. xxix.B. 3.

Me-s. See under Me.

Me-su-li. After the summer. ₹. 30, 82 ; rii. 4.
Me-tsi-el . . . v. 31, 83.
Mu. See under me.
Mu-hu-i-du-li-i-e. After . . . . 1vi. iii. 10. Possibly a compound of $d u$ and mui, which we find perhaps in the reduplicated mumu-ni; but the reading is uncertain.
Mu-mu-ni. The rich. xlv. 23. Mu-hu-mu-ni-ni. Belonging to the rich. lvi. i. 2.
Mu-mu-hu-i-ya-bi. I enriched. xli. 15.
Mu-mu-ya-a-bi. xi. 4.
Mu-na-a. Of the island (?). xxix.B. 4.
Mu-ru-ba . . . . A Georgian prince. xxxrii. 25.
Mu-ru-mu-ri-a-khi-ni. The children of . . . . xli. 19.
it Mu-sa-ni-e. The land of Musanis (near Malatiyeh). 1. 15.

## N.

Na-ku-ri. Gifts (?). xxx. 15; 1. 24.
Na-kha-a-di. On despoiling. li. iii. 4.
Na-kha-di. xlviii. 27.
Na-khu-bi. $I$ despoiled. xxxi. 12; xlix. 9, 23, 26 ; l. 24.

- Na-la-i-ni-e. To the god Nalanis (the god of Nalas). r. 6, 38.

Na-a-ni. Perhaps for inani 'city.' xli. 19. More probably ma-a-ni 'it.'
Na-nu-da. li. 5.
Na-a-ra-a. To fire. xxii. 13 ; xxxiii. 28 ; xxxiv. 24.
Na-ra-a. xx. 18 ; xxi. 16 ; xxriii. 12 ; xxx. 36 ; xlir. 19 ; xlviii. 24.
Na-ra. l. 40.
Na-ra-ni. With fire (lit. belonging to fire). xxxriii. 45. Na-ra-a-ni. xlv. 9.
\& Na-ra-a-hu-e. Of the land of Naras. Iri. iv. 5. The Vannic form of the Assyrian Nahri (i.e. Southern Armenia and Kurdistan).
Na-a-hu-hu-se (i.c. naruse). IIorses. xlv. 26. Better, 'belonging to horses,' an adj. in -sis from navus. See Ideographs No. 34.
Ni-ka-li. After . . . . x. 6 ; xii. 3.
Ni-ip-si-di. An epithet of Khaldis, formed by the suffixes -śi and -di. v. 3, 35.

Ni-ip-si-di-c. xix. 7.
－＝YY Ni－pur－ri－（ni）．The city of Nipur（near Rowandiz）．lvi．ir． 7. $\Rightarrow=Y$ Ni－pu－ri－ni．lri．i．8，iv． 7.
\＆Ni－ri－ba－i．Of the land of Niribas．xxxviii．13．The Nirbu of the Assyrians ；see p． 397.
Ni－ri－bi．The dead．v．20， 58 ；xxi． 9 ；xlvi． $18 ; 1.20$ ；lvi．i． 9， 14.
$=-$ YY Ni－si－a（？）－du（？）－ru－ni．The city of Nisiadurus（？）．г． 20 ， 58.
$=Y Y$ Ni－si－i－ni．The city of Nisis．1．19．The capital of Khila－ ruadas king of Malatiyeh．
Nu－hu－s．Queen（king）．xxiv． 8.
〈〈 Nu．King（ace．）．xxxrii． 6.
〈〈 Nu－a－di．Among the people of the king．xli． 13.
＜（ Nu－Si．Royal．xxxrii．12， 27 ；xxxviii．14， 42 ； xxxix． 9,34 ；xliii． 39,59 ；xlix． $14,15,16 ; 1.19$ ； liii． 3.
Nu－la－da－e．lir．10．Possibly＇eourtiers＇quarters，＇from nu－s， with the suffixes $-d a$ and $-l a$ ，the latter being to $-l i$ as $-d a$ to $-d i$ and $n a$ to $-n i$ ．

Nu－la－a－da．liv． 11.
Nu－la－da．liv． 6.
Nu－lu－us－tu－hu－bi．I ravaged．xxxviii．42．A compound of $t u$ ．
Nu－na－a－bi．I attackcd．xlix．11；1． 22.
Nu－na－bi．xxx． 13 ；xl． 80 ；lvi．iv． 4.
Nu－na－a－li．After attacking．lvi．ii． 5.
Yu－nu－da－e．Of Nunudas．liv．12．Apparently a chief of the Seluians near Armarir．
$\mathrm{Nu}(?)$－su．г． 26.

P．
For PU see also BU，which is written in the same way．
Pa－kha－（ni）．Winged bulls（？）．xxi． 7.
$=Y\langle$ Pa－khi－ni－e．Oxen．xxxviii． 48.
$=\\langle$ Pa－khi－ni $| \lll<. \quad$ xxxviii． 1 ；xl． 39 ；xlix．9，14； xliii．8，29， 66 ；xlv．14， 21 ；xlix． 11.
$=Y\{$ Pa－khi－ni．xxxi．17；xxxvii．15；xxxviii．22； xxxix．16， 43 ；xl．7；xlviii． 29 ；xlix．21，24， 28.
\# Pa-la-i-ni. The land of Palais (in Georgia). 1r. 8.
Pa-a-ri-e. Out of. xxx. 10 ; xxxiii. 11; xxxvii. 10, 37 ; xliii. 49.
Pa-a-ri. xxxix. 40.
Pa-ri-e. xxxvii. 21; xl. 57 ; xliv. 1.
Pa-ri. x. 1; xxxvii. 8, 10, 22, 28, 32 ; xxxviii. 17 ; xl. 36 ; xli. 6,19 ; xliii. 25 ; xlv. 38 ; xlvii. 5 ; xlix. 5 ; l. 13,14 ; liii. 7.

Pa-ru-hu-bi. I carried away. xxxix. 59; xl. 59, 62 ; xlix. 21, 23, 27.

Pa-ru-bi. xxxi. 18 ; xxxvii. 15, 22, 26 ; xxxviii. 1, 22, 31,48 ; xxxix. 17 ; xliii. 7, 26, 29, 40, 67, 81 ; xlix. 9, 10, 19, 21, 26, 27, 28.

Pa-ar-tu-se. Captive. xlix. 12. A compound of $\operatorname{par}(u)$ and $t u$. Pi-e-i. The name. l. 26.

Pi-i. xxx. 15 ; xxxiv. 14 ; xlv. 18 ; xlix. 17.
Pi-e-i-ni-e. xxxiii. 26 ; xliv. 17.
Pi-e-i-ni. xix. 19; xx. 17; xxi. 14; xlviii. 22.
Pi-e-ni. xxxi. 30 ; xxxiii. 17 ; xliii. 58 ; l. 39.
Pi-i-ni. xx. 17 ; xxii. 12 ; xxx. 34 ; xxxiv. 21 ; li. 11.
Pi-ni. xxviii. 10 ; xxxviii. 17.
Pi-da-e. Memorial. xxii. 10 ; xxix.B. 7.
Pi-da. xxii. 2, 3; xxix.B. 9.
$\mathrm{Pi}-\mathrm{i}-\mathrm{tu}-\mathrm{hu}$-da-i-e. Me carries away the name. xxxr.A. 4 Rev. A compound of $t u$.
Pi-tu-da-i-e. xxx. 30 ; xxxiii. 23 ; xliv. 5 ; 1. 35.
Pi-tu-da-e. xx. 11 ; xxii. 8 ; xxxiv. 16 ; xlviii. 16.
Pi-i-tu-hu-li-i-e. After taking away the memory. xxi. 11.
Pi-i-hu-li-i-e. With the dental dropped. lvi. iii. 12.
Pi-ur-ta-a-ni. He has remombered (?). li. 5.

- = Y Pi-la-i (?) . . . (among the Hittites). xxxviii. 17. Perhaps we should read Pi-te-ra ' Pethor.'
Pu-lu-hu-śi. Written. xxvi. 4; xxvi. (2.) 3 ; xxvii. 3. See p. 675.

Pu-lu-śi. vi.B. 2; xxviii. 3; xxxiii. 12 ; xlvii. 2.
Pu-ru-da-ni. The place of sacrifice (?). xix. 8. Compare buras.
$-=$ YY Pu-te-ri-a-ni. The city of Puterias (now Palu). xxxiii. 2,
8. May be read Pularias.
$-=$ Y| Pu -te-ri-a. xxxiii. 14.
$=-\boldsymbol{Y Y}$ Pu-ti-e. The city of Putis (N.W. of Lake Van). xxxvii. 8.
R.
$=$ =YY Ra-bi-khu-ni (?). The city of Rabikhus (?) near Armavir. xxxir. 9.
YRa-pi-is-khi-ni-s. The son of Rapis (a Georgian prince). liii. 2. . ra-za-hu-ni. A king near Rowandiz. lvi. i. 3.
Yy Ru-ku. Victims. xix. 14.
Ru-śa-a-s. Ruśas (king of Van). lii.
Y Ru-Sa-a-ni. lii.

## S.

Sa-a-da-e. There xxxix. 14, 41. See sa-tuada.
Sa-a-da. xl. 13; 1v. 14.
Sa-hu-e. Belonging there. li. 5.
Sa-na. Of that country (?). xi.a. 3.
Sa-ni. 1v. 12.
Sa-da-ha-da-e-khi-ni-ni. Belonging to the son of Sada-hadas (probably for Sanda-hadas), king of the Hittites. xxxii. 5.
| Sa-da-ha-da-e-khi-ni-da-a-ni. Place belonging to the son of Sada-hadas. xxxii. 6.
Ya-khu-khi. Son of Sakhus (king of Malatiseh). 1. 2.
Sal-du-hu-li. r. 29, 81. See si-du-hu-li.

- =YY Sa-a-ra-ra-a. Probably to be read Sa-ti-ra-ra-a, of Satiraras, in the land of Bustus. xxxix. 10. See tisa-ti-ra-ra-hu-ni.
Y Sa-as-ki... Saski . . (king of Sasilus). xlv. 15.
$\Rightarrow$ =Y Sa-a-si-lu-hu-i-ni. The city of Sasilus (among the Askalaians, N.W. of Lake Van). xlr. 11.
$\Rightarrow=Y$ Sa-si-lu-ni. xxx. 8.
ti Sa-ti-ra-ra-hu-ni. The land of Satiraraus (in Bustus, the Sitirarya of the Assyrians). Exxix. 36 ; xl. 54. See $-=Y Y$ Sa-a-ra-ra-a and p. 400.
Sa-tu-hu-bi. I took hostages. 1. 17. Compounded with $s a$ and $t u$.
Sa-tu-a-da. Hostages, homage. xxx. 14; l. 24. Literally 'place of the people of taking away from there.'
* Se-bi-tu-hu-e. To the god Sebitus. v. 6, 39.

Se-kha-hu-da-e. Of Sekhaudas. li. 8, 10.

Se-e-khi-e-ri-e. Alive. xxxvii. 13.
Se-khi-e-ri. xxxvii. 14; xxxix. 42.
Se-khi-ri-e. xl. 4, 61.
Se-khi-ri. xxxvii. 42 , 47 ; xxxix. 15 ; xl. 38 ; xliii. 6 , 28, 65.
$-Y$ Se-lu-i-ni-e. The Seluians. liv. 13.
Ir Se-hu-i-ni-e-hu-ni. What belongs to the Seluians. liv. 12.

Se-ir(?). xxxi. 26.
Se-ri. Charaeters. xix. 17; 1. 36.
\& Se-ri-i-a-zi. Of the land of Seriazis (N.W. of Lake Van). xxxvii. 7.
ti Se-se-e-ti-i-na-a. Belonging to the land of the Sesetians (near Melazgherd). xxx. 10.
Si-a-di. On earrying away, despoiling. xxxvii. 11.
Si-i-e-s. Removing (pres. part.). xli. 19.
Si-i-hu-bi. I took away. xxxviii. 18; 1. 21.
Si-hu-bi. xxx. 22 ; xxxriii. 43 ; xxxix. 7, 64; xliii. 50, 80.
Si-i-hu-da-i-e. He takes away. xliv. 12.
Si-hu-da. xxi. 7.
Si-da-hu . . . xiii. 2. See note on the passage.
Si-i-di-i-(si-tu-ni). He brought back, restored. viii. 5.
Si-di-si-tu-ni. iii. 1, 2; ix. 2, 3; xiii. 2, 3.
Si-di-is-tu-hu-ni. xvii. 5.
Si-di-is-tu-ni. xvii. 3 ; xxxv. 3.
Si-di-is-tu-bi. I restored. lv. 17.
Si-di-si-tu-a-li. After restoring. x. 8.
Si-di-is-tu-a-li. xvii. 4; xviii. 4.
Si-di-is-tu-a-da. He restores. xx. 4.
Si-di-is-tu-hu-da. lv. 15.
Si-du-bi. I established (?). xl. 72. Probably connected with the next word.
Si-i-du-li. After the beginning of the year (?). vii. 5, 6. See sal-du-hu-li.
-Y Si-e-la-ar-di-e. To the Mroon-god. v. 40. A compound of si-lis and ar.
Si-li. After dawn. v. 26, 74.

- ( Si-ni-ri-e. To the god Siniris. v. 10, 44.

Si-ri-i. lv. 12.
Si(?)-ri-bi-i. xi.a. 3. See niribi and k.arbi.

Si-si . . . I occupied (?). xlr. 34.
$\Rightarrow$ =Y Si-si-ri-kha-di-ri-ni. The city of Sisirikhadiris (of the Minni). xliii. 39. See p. 400. As tho Assyrian name was Izirtu we should perhaps read Si-ar-kha-di-ri-ni.
Si-is-ti-ni. Furniture (?). xlix. 22. It interehanges with sisukhani and is probably for sis(u)-rli-ni.
Si-su-kha-ni. Furniture, harness. xxxrii. 5 ; xxxriii. 40 ; xliii. 43 ; xlri. 14. See sur-kha-a-mi.

- Y Su-ba-a. To the god Subas. v. 15, 54.

Su-hu-ba-ra-ni. lir. 2.
Su-i-ni-ni. Belonging to lambs. xi. 4 ; xix. 8 ; xxix.B. 8. If susis is an adjectival formation in -si from a root $s u$, suinis would be 'belonging to a sheep,' i.e. a lamb.
Su-khe. These. г. 27, 76; 28, 77; 29, 80.
A Su-ra-hu-c. Of the land of Suras (part of the kingdom of Van). xliii. 18; xlviii. 6 ; li. iii. 9 ; lvi. iv. 6.

- =Y Su-ri-si-da-ni. The city of Surisidas (among the Hittites). xxxii. 5.

24 Su-ri-(si)-da-(ni)-i. The land of Surisidanis (?) (in Bustus). xxxix. 24.

Sur-kha-a-ni. Furniture, harness. xxxis. 49. Either a synonfm of sisulihani, or sur is a false reading for sisu. The latter is the more probable.
El| Su-hu-se-e. Sheep. xlviii. 29. See suinini.
Ey Su-se $\ \lll$. xxxvii. 15 ; xxxriii. 2, 22, 32, 48 ; xxxix. 17; xl. 8, 39 ; xliii. 8, 30, 67 ; xle. 14; xlix. 21, 25.
Yyy Su-se. xlv. 22 ; xlix. 11, 28.
Su-śi-ni-ni $Y \lll<$. Fortified walls. 1v. 13. Cp. śuśi "wall of a house' (paries as opposed to menia).

Su-śi-ni. xxxriii. 23 ; xxxix. 45 ; xl. 13 ; xli. 11 ; xliii. $32 ; 1.16$.

## S'.

* Sar-di-i-e. To the god S'ardis. v. 22. In Lydian
 god ' (Lydus, De Mens. 3, 14).
$\rightarrow-\mathrm{YY}\langle$-s. The goddess S'aris. xxiv. 8. Probably borrowed from the Assyrian Istar.
$Y$ - Sar-du-ri-s. S'ar-duris or Sari-duris (a rogal name). 1iii. 2. $Y-y=Y<Y$-du-ri-i-s. xlviii. 14. $Y-Y=Y<Y$-du-ri-s. xlviii. 2, 9, 25; xlix. 4, 6, 25, 29; 1. 6, 21, 34; li. 2, 3, 9, iii. 2.
$Y-y=y<Y$-du-rie-ei. (Gen.) li. iii. 6.
$Y-Y=Y Y<Y$-du-ri-e. xlix. 18.
$-\frac{y}{*}-Y Y\langle \rangle$-du-ri-i-ni. (Adj. in -nis). slix. 3.
$Y-y=Y Y<Y$-du-ri-ni. xlviii. $5 ; 1.5,32$; li. iii. 8.
$Y-\frac{Y}{}-\mid Y\langle Y$-du-ri-ni-i. li.6, 7.
- $->|Y| Y$-du-hu-ri-e-khi-ni-e-s. Son of S'arduris. iv.

Y-> $\left.-Y_{Y}\right\rangle$ Y-du-rie-khi-ni-s. $\quad$ т. 1, 32.

Y-y $-\mid Y\langle \rangle$-dur-khi-ni-s. iii. 1, 2.
$Y-y>Y<Y$-du-ri-khi-ni. (Gen.) v. 24, 68.
$Y-\frac{Y}{}-Y|Y| Y$ du-ri-khi. (Acc.) xxxi. 9.
$-\mathcal{F}^{Y}-Y Y<Y$-dur-e-khe. lvi. ii. 6, iv. 5.

- $-Y Y<Y$-du-ri-ka-i. To the race of S'arduris. xlix. 2; 1. 3.

Si ... $\quad$. $25,72$.

- Síili-i-a. To the god of the deity of Silis. v. 22.

Si-lu-a-di. Among the people of ... xxx. 15; 1. 24.
Si-ri. Corn-pits. xliii. 13. See also xxxviii. 17. Cp. Georgian soro, Arm. Sirim, Kappadokian siri (Pliny, N.H. xiii. 73).

Si-ir-si-ni-e. Belonging to the rock-tomb (adj. in -si and $-n i) . \quad$ xxi. 2.
Si-ir-si-ni-ni. xxi. 4.
\$1 S'i-ri-mu-tar-a. The land of S'irimutaras (N.W. of Lake Van). xxxvii. 10.

Y S'u-da (?)-ni (?)-za-a-hu-a-da. S'udani (?)-zavadas (king of Malatiyeh). xxxiii. 15.
Su-dhu-ku-hu-hi. I despoiled. xxx. 24, 28; xxxix. 6; xlv. 8. Sce also xxxvii. 34. Su-du-ku-bi. 1. 27.
Stu-hu-i. $\quad A l l$ (?). xix. 16; xxxi. 10; xxxix. 31 ; xliii. 2; xlriii. 15. Su-u-i. xxviii. 5.
(? $\left.\mathrm{S}^{\mathrm{s} u}\right)$-hu-i-ni. xxix.B. 6.
Su-lu-us-ti-i-bi. $I$ imposed. xxx. 14; 1. 23. A compound of sulu and ustabi.

S'u-ni (?). li. 9.
Sutsíi. Wall (of house). xvii. 3. Sce suśini 'fortifiod walls.' S'u-hu-si-ni. Belonging to the wall. v. 54.
S'u-sí-ni. ₹. 17.

## TS.

YTsi-e-ri-khi-ni-i. Of the son of Tsieris (a Georgian king). liii. 4.

- ${ }^{\text {- }}$ Tsi-nu-5a-ar-di-e. To the god Tsinuyardis. v. 22, 62.

Tsi-ma-da-bi-i. Of Tsimadabis (a Georgian king). liii. 4.
Y Tsi-ma-da-bi-ni. liii. 5.
$=$ =YY Tsu(?)-i-na-hu-e -y. To the god of the city of Tsuis. r. 19, 56.
T.

- $\mathcal{Y}$ Ta-la??)-ap-hu-ra-a. To the god Talapuras. $\quad$ r. 18, 55.

Ta-li-ni. xlix. 13.
Tar-a-i-e. Powerful. xx. 6.
Tar-a-i-hu-e-di. (Loc.) xxx. 2.
Tar-a-i-hu-khi. The son of the mighty. liv. 8.
\# Tar-i-hu-ni. The land of Tarius (N.W. of Lake Van). xxxrii. 8 ; xxxix. 22 ; xliii. 71. Perhaps 'the porterful land.'
\& Tar-i-hu-i-di. (Loc.) xliii. 74.
A Ta-ri-ri-a-i. Of Taririas (the mother of Menuas). Exiii. 2.
ㄷ Ta-ri-ri-a-khi-ni-da. Place of the son of Taririas. xxiii. 3.

- =Y Tar-khi-ga-ma-a-ni. The city of Tarkhigamanis (among the Hittites). xxxii. 5.
it Tar-ra . . . The land of Tarra . . . xxxvii. 28.
Fy- Ta-ar-su-a. Soldiers. xxxriii. 45 ; xlv. 9. From the causative of tar 'strong.'
- 1 - Ta-ar-su-a-ni. xxxii. 8; xxxvii. 14 ; xliii. 5, 2 万.
- Y Y Ta-ar-su-a-ni $Y \lll<$. xxxix. 41 .
$\Rightarrow$ Yy- Ta-ar-su-a-ni-e-i. xl. 2, 60.
=-1Y Ta-as-mu-s. The nobles. xxx. 17.
- Te-e-i-se-ba-a-s. The Air-god (Teisbas). xx. 15. See -
- =YY Te-ra-a-i . . The city of Terai . . (near Rowandiz). Iri. ii. 1 .

Te-e-ru-hu-bi. I set up, established. xlviii. 9.
Te-ru-hu-bi. xliii. 57.
Te-ru-bi. vi. 3 (?) ; xlv. 5, 17, 23; lvi. ii. 6.
Te-ru-hu-ni. He set up. li. 3.
Te-ru-ni. v. $2 ; 27,76 ; 28,77 ; 29,80$; li. iii. 5.
Te-ir-du-hu-ni. He has executed. xxi. 5. A eompound of ter and $t u$ (softened to $d u$ ).
Te-ir-tu[-ni]. They have set up. ₹. 34.
Te-ir-du-da-ni. A place of setting up. liv. 7. Te-ri-khi-ni-e. Workmen. li. 6.
$-=\mid Y$ Ti-ku-ul-ra-i-ta-a-se-e. The city of Tikulraitasis (near Malatiyeh). 1. 31.
Ti-i-ni. He has called. xix. 4 ; xxii. 3 ; xxiii. 3 ; xxw. 5 ; li. 7. See ap-tini.
Ti-su-ul-du-li-ni. After dark. v. 26, 74.
Ti-i-hu-da-i-e. He undoes. xxxv.A. 8 Rer. See ihudae.
Ti-i-hu-da-e. xxxi. 29.
Ti-hu-da-i-e. xx. 13 ; xlviii. 18, 20.
Ti-hu-da-e. xx. 13 ; xxx. 32 ; xxxiv. 18 ; xliv. $8,10$.
Ti-hu-da. xxii. 9.
Ti-hu-li-e. After undoing. 1. 37.
$\langle Y Y$ YH Tu-a-i-e. Gold. xlv. 20.
$\langle Y Y H Y \lll<T u-a-i-e . \quad$ Pieces of gold. xlr. 24.
$\langle Y Y=H$ Tu-a-i-ni. lv. 8.
Y Tu-a-te-khi-ni. The son of Tuates (king of Malatiyeh). xxxviii.
16. Perhaps we should read Tu-a-la-khi-ni.

Tu-hu-bi. I carried away. xxxii. 3; xxxix. 39 ; xxxr.A. 7 Obr.
Tu-bi. xxxiv. 8 ; xxxix. 13 ; xli. 6 ; xliii. 4, 24, 38 , 53 ; xlv. 18 ; xlix. 8, 17.
Tu-hu-da-i-e. He carries away. xix. 13 ; xxxiii. 23.
Tu-hu-da-e. xxxi. 28.
Tu-u-da-e. 1. 35.
Tu-da-e. xx. 10; xxii. 7 ; xxxi. 21; xxxir. 16; xlriii. 17.
Tu-da-i-e. xxx. 30 ; xliv. 4.
Er-Tu-khi. Prisoners, captives. xlix. 25.
Tu-khi. xliii. 16, 78 ; xlviii. 26, 28 ; li. iii. 3.
Tu-khi-ni. xlviii. 27 ; li. iii. 4.

-     - YY Tu-da-hu-ni. The city of Tudaus (near Eranos, Lake Erivan). liii. 3.

Tu-me-ni-e. Fillages. 1. 10, 12.
Tu-me-ni. 1. 16.
YY Tu-ra... The river Tura . . (in Bustus). xxxix. 61.
Tu-ri-c. Stone (?) 1. 37.
Tu-ri. xliv. 8 ; xlriii. 19.
Tu-ri-i-ni-ni. For thase belonging to the rock (?). xxxi.A. 10 Rev.
Tu-ri-ni-ni. xix. 18 ; xx. 14 ; xxi. 13 ; xxii. 10 ; xxriii. 6 ; xxx. 33 ; xxxiii. 25 ; xxxiv. 20 ; xliv. 14 ; xlviii. 20 ; 1. 37 ; li. 10.

Tu-su-kha-ani. Plunder (?). xxxii. 2.

$$
\mathrm{U}, \Pi \mathrm{U} .
$$

F Hu-a. To the god Uas. г. 6, 38. We learn from the Assyrian inscriptions that Uas was the name of a god of the Moschi.
-> Hu-a-i-na-hu-e. To (the gate of) the god of the land of Uais. г. 20, 38.
. . . . hu-a-tsi-i-di. xxxrii. 12.
$-\underset{\text { - }}{\text { Y }}$ Hu-ba-a-ru-gi-il-du-ni. The city of Ubarugildus. xxxrii. 27.
t4 Hu-bur-da-al-khi. The inhabitants of the land of Uburdas (in Georgia). Exxviii. 41.
it Hu-bur-da-hu-e-di-ya. The people of Uburdas. xxxviii. 40.

Hu-da-e-s. That. xxxi. 29; xliv. 9 ; xlvi. 16 ; xlviii. 19.
Hu-da-s. xx. 13; xxii. 9; xxx. 32; xxxiv. 18; xxxv.A. 7 Rev.
Hu-da-ni. lip. 5.
Hu-da-i. xliv. 8 ; xlriii. 19; 1. 37.
Hu-da-e. xxi. 12 ; xxxiii. 24.
$=Y \mathrm{Hu}$-du-da-e-i. Of the place of the monument. 1i. 7. See $=Y D u-u$.
Y Hu-du-ri. Of Uduris (king of Etius). xxxvii. 22. Apparently the same as Udharus.
t U-du-ri-e-ti-ni. The land of Uduretis (near Erivan). liii. 7.
Hu-dha-ru-hu-khi. The son of Udharus (acc.). xxxi. 2. See $\Pi_{u-d u-r i}$ and $\Pi_{u-i-d h a-e-r u-k h i-i-n i-e-i .}$

Y Hu-dha-ru-khi-ni-e-di. Into the land of the son of Udharus. xxxi. 5, 10.
Y Hu-dhu-bu-ur-si-ni. Udhubursis (king on the N.W. side of Lake Van). xxx. 12.

Hu-dhu-bur-si-ni. xlvi. 3.
$\rightarrow$ YY Hu-dhu-kha-a-i. Of the city Udhukhais (N.W. of Lake Van). xxx. 11.
=ry-hu-e-da-śi-ni. Rank and file. xl. 79.
Hu-e-da-i-ni. Vedainis (king of Irmas in Georgia). xlix. 16.
\& Hu-gi-is-ti-ni. The land of Ugistis (in Bustus). xl. 55.
Hu-i (=Vi). And. v. 26, 73; 28, 77; 29, 80; ix. 2; xiii. 2; xxxvii. 12 ; xli. 13 ; 1. 7.

- Hu-i-a. To the god of Vis. v. 23.

Y Hu-i-du-s. Vidus. li. 9.
Hu-i-dha-e-ru-khi-i-ni-e-i. Of the son of Uidharus. xlv. 37. See Uduris and Udharus.

Y Hu-i-dha-ru-khi-e-ni-e. xliii. $52,55$.
$=-Y Y$ Hu-i-khi-ka-a. The city of the tribe of Vikhis (in Bustus). xliii. 25.
$\rightleftharpoons=Y$ Hu-i-si-ni. The city of Visis. $\quad$ v. 54.
$=$ = $\$ Hu-i-si-ni-ni. $\quad$ г. 16.
t Hu-i-su-si-ni. The land of Visusis (in Georgia). xxxviii. 42.

EY Ul-di-e. Monuments. $\quad$. 27,$76 ; 30,81$.
E Ul-di. xxiii. 2.
Ul-gu-se. Shields. v. 24, 67; xi. 2. See vii. 3. Ul-gu-si-ni. Belonging to shields. lii. Ul-gu-si-ya-ni. Shieldsmen. Ivi. i. 13. Ul-gu-si-ya-ni-e-di-ni. Shieldbearers. lii.
U Ul(?)-dhu-ni Y<<<. Camels. xl. 6.
Ul-khu-di. In the campaign. 1. 22.
Yl-tu-za-i-ni. Ultuzais (king of Anistir in Georgia). xxxvii. 18.
\& Hu-lu-a-ni-e-i. Of the land of Uluanis (Erivan). xxxri. 6.
Hu-lu-hu-da-e. They give. xxi. 17 ; xxxiii. 28.
Hu-lu-hu-da. xxii. 14.
Hu-lu-da-c. xx. 19 ; xxriii. 12 ; xxx. 36 ; xxxiv. 24 ; xl. 20 ; xlviii. $24 ; 1.40$.

Hu-lu-us-ta-i-bi. $I$ approached with offerings. xxx. 6 ; xxxrii. 20 ; xxxriii. 12,29 ; xliii. 51 ; xlv. 32 . A compound of hulu and ustabi.

Hu-lu-us-ta-bi. xxxir. 7.
${ }^{4}$ Hu-me(?)-ku . . . The land of Umekus (?). xxxvii. 24.

- YYY Um (?)-e-se-e. Perhaps " the city of tablets." 1.30. Near Malatiyeh.
Um-nu-li. After the spring. г. 30, 81; vii. 6.
Um-nu-li-ni. xii. 3.
-Y Hu-ni-na-a. To the god of the land of Unis. v. 10, 44.
Hu-ra-a. To the god Uras. г. 11, 47.
=-ry Ur-bi-i-ka-a-s. The tribe of Urbis. liv. 9.
Ur-di-du. liг. 13.
- =Y Ur (?)-kha (?)-ni. The city of Urkhas (?). xxxir. 3.

Hu-ri . . . lri. (1,) 8.
$\Rightarrow$ - M Hu-ri-e-i-hu-ni. The city of Urieyus (N.W. of Lake Van). xxxrii. 12.
ti . . . ur-ma-ni. The land of . . . urmas (in the Hittite district). xxxriii. 13.
it Ur-me-i-ni. The land of Urmes (apparently north of the Araxes). xli. 5.
\& Ur-me-e-di. (Loc.) xli. 5
ti Ur-me-hu-e-e-di-a. The people of the land of Urmes. xlix. 22.

Ur-pu-li. After the shrine (?). xi. 3.
Ur-pu-li-ni., x. 6; xri. 3.
Ur-pu-da-i-ni. xlviii. 12.
Ur-pu-a-tsi. Ministers (?). vii. 1; xvi. 5.
Hu-ru-da-e. Of the family. li. 8. See arkhie-urudas.
it Ur-ya-ni. The land of Uryas (probably in Georgia). xxxrii. 25. Us-gi-ni. Favourable (?). iii. 2. Sce ri.A. 3. Probably a compound of us 'near' and $g i$ (as in gies).

- $=$ Y Hu-si . . . The city of Usi . . . (near Rowandiz). Ivi. (4.) 8.

Us-ku(?)-bi-i. lri. (4.) 7.
Us-ma-si-i-e. Gracious (?). v. 17. Mrore probably ' of the city.' Perhaps compounded with us.

$$
\begin{aligned}
& \text { Us-ma-si-e. } \quad \text {. } 54 . \\
& \text { Us-ma-a-si-i-ni. xrii. } 1 ; \text { xxir. } 2 ; \text { xxt. 1; xxri. } 1 . \\
& \text { vol. xir.-[NRW series.] }
\end{aligned}
$$

Us-ma-a-si-ni. xiii. 1 ; xviii. 1 ; xxx. 4; xlv. 31 ; ? lvi. (1.) 5.
Us-ma-si-ni. xix. 1 ; xx. 1 ; xxii. 1 ; xxxii. 1 ; xxxiii. 6 ; xxxiv. 5 ; xxxv. 1 ; xxxri. 4 ; liii. 1.
Us-ta-a-bi. I approached, prayed. xxxi. 4, 8; xxxiii. 1, 6; xxxviii. 51 ; xxxix. 46 ; xlv. 31. A comparison with ustuni shows that it is a compound of $u s$ and $t \hat{d}$ or tai. The latter may be connected with ti-ni 'he called'; us must signify 'near.' A comparison with nulus makes it possible that $u s$ stands for $u-s i$, from a root $u$. The difference between ustabi and kabkarubi is that between the Assyrian karabu (בר) and lavu (הול).

Us-ta-bi. xxx. 1, 5 ; xxxiv. 1, 5 ; xxxvi. 1, 4 ; xxxrii. 17, 20 ; xxxviii. $5,25,28$; xl. $14,42,67$; xliii. $11,33,70$; xlv. 27 ; xlvi. 1,11 ; xlix. 1, 3 ; l. 1, 5; lv. $1,3$.

Us-ta-a-di. On approaching. xxxii. 2 ; xxxvii. 9, 24; xxxviii. 15 ; xliii. 52 ; xlix. 4.

Us-ta-di. xxix.B. 2; xxxvii. 6, 12, 29, 33 ; xxxriii. $12,40,43$; xxxix. $8,33,36,55,60$; xl. 34,53 ; xli. 5 ; xliii. $24,38,47,74$; xlv. 2 ; xlix. 13,22 ; l. 12.

Us-tu-ni. He has dedicated. lii. A compound of $u s$ and $t u$; cp. sidistu-ni.
Hu-tsi-di. Among future ones (?). xix. 11.
Hu-tsu-ni. He has destined (?). xix. 10.
$=Y Y \mathrm{Hu}$-hu-ra-a-khi. The city of Vurakhis (near Malatiyeh). 1.28.
it Hu-hu-si-ni. The country of Vusis (in Bustus), xl. 56.

- -YY Hu-zi-na-bi-tar-na-a. Of the city of Uzibitarnas (N.T. of Lake Van). xxxvii. 10.
Y.

Ya-ra-ni. Who has consecrated. xxxiii. 13; lri. (1.) 5.
. . . ya-si-na-tsi-e. xlviii. 11.

> Z.

- Za-ba-a-kha-a-e-si-i-da. The district of the Zabakhaians (N.W. of Lake Van). xxxvii. 9.
\# Za-ba-a-kha-a-e-hu-e-e-di-ya. The people of Zabakhas. xxxrii. 9.
Za-a-du-hu-bi. I built, made. xxxf.A. 9 Rev.; xliii. 18. Perhaps a compound of za and du or $t u$. Cf. zasgubi.

Za-a-du-bi. xx. 14; xl. 41 ; xli. 11.
Za-du-hu-bi. xxxi. 30 ; xxxviii. 24; xxxix. 45.
Za-du-bi. xx. 14 ; xxx. 32 ; xxxrii. 16 ; xxxriii. 3, 50 ; xl. 13,66 ; xliii. $10,32,69$; xliv. 10 ; xlviii. 20 ; lvi. (1,) 11.

Za-a-du-hu-ni. He has built. ir.; xir.; xxr. 4.
Za-du-hu-ni. xr.
Za-du-ni. rii. 1; xxi. 2 ; xxir. 5 ; xxri. (3.) 4; xlix. 29 ; lii.
Za-a-du-hu-a-li. After being built. v. 2.
Za-a-tu-hu-a-li. v. 33.
Za-a-i-ni. 1v. 11. Probably connected with the next word.
Yy Za-i-se-e-i. Of the gate, pass. 1ri. (3.) 7. The ideograph for 'gate' given on p. 421 should accordingly be pronounced zaisis. The worl, horrever, may be strietly zais (ef. zaini), zai-sis being an adjective in -si.
Za-na-ni-ni. xri. 4. Probably "for those that belong to the people (or land) of the gate." Hence we may assume a mord zais or zas 'gate,' from which come the deriratires zai-nis, sai-sis, and za-nas.

- $=$ YY Za-ap-sa. Of the city of Zapsas (near Malatiyeh). 1. 15.

Za-as-gu-hu-bi. I killed. xxxii. 9 ; xl. 3. The existence of asgubi 'I took' seems to show that zasgubi is compounded with $\approx a$. $Z a$ will then mean 'thoroughly,' 'to an end,' zadu being 'to bring to an end' (i.e. 'complcte' or 'make') and zasgubi 'take to an end ' (i.e. 'destroy').

Za-as-gu-bi. xxxrii. 14, 41 ; xxxviii. 21, 47; xxxix. $15,37,42,61$; xli. 8 ; $x_{\text {liii. 6, } 28,65 \text {; xxxf.A. }}$ 1 Obr.
Zi-el-di. xix. 9; liv. 3.
zi-ni-e-1. xi. 3. Cp. asazie-khinie.
Zi-ir-bi-la-ni. xliii. 42.
-* Zi-hu-ku-ni-e. To the god of Zihukus. v. 11, 47.
it Zu-a-i-ni-e. The land of Zuais (near Daher and Melazgherd). 15. 7.

- = Y Zu -hu-a-ni. $\quad$ xlס. 3.
$\xlongequal[=]{=}$ YY Zu－a－i－na－a．The district of Zuais．xxx． 11.
$=-Y$ Zu－hu－a－i－di．（Loc．）xlv． 3.
$=Y Y \mathrm{Zu}-\mathrm{a}-\mathrm{si}-\mathrm{a}-\mathrm{di}$ ．Among the Zuaians．xlv． 5.
$-=Y \mathrm{Zu}(?)-\mathrm{a}-\left\{\begin{array}{l}\mathrm{k} \mathrm{ku} \\ \mathrm{da}\end{array}\right\}$－hu－i－e．The city of Zuakhuis（？）（in Georgia）．xxxiv． 9.
－- YY（or Zu ）－zu－ma－（a）－ru－e．To the god of the city of Zumarus（or less probably to the god Zuzumarus）．r．10， 45.


## IDEOGRAPHS．

［These are arranged in the same order as in the list given on pp．421－2．＇］
1．〈〈 King．xx．6，7；xxii． 5 ；xxvi． 6 ；xxvi．（2．） 5 ；xxrii． 11 ；xxix． 11 ；xxx． 12 ；xxxiii．16， 19 ；xxxv． 7 ；xxxri． 9 ；xxxvii． 6 ；xlv．17， 38 ；xlviii．6，7；l．2，7，33；li．iii． 9,10 ；lii．；liii． 6 ；lvi．（1．） 3 ，（4．） 5 ．
〈＜－e（？khute）．Acc．Sing．xlix．11；li．iii． 10.
$\langle\langle$－ni（nuni）．Acc．Sing．xlix． 17.
＜＜${ }^{<} \lll<$ ．Pl．xix． 11.
〈〈 $\langle\lll-$ di．Loc．Pl．xxxi． 7.
$\langle\rangle \lll<$－hu－e（khulave）．Belonging to the lings．xlviii． 7.
$\langle\langle 〉 \lll-h u-e-d i-a$. People of the kings．xlv． 15.
$\langle\langle Y \lll<-d a-d a-e-d i-n i . \quad$ People of the two kingdoms．xxx． 24.
〈〈－śi（nuśsi）．Royal．See $-\mp Y$＜$\langle$－śi．


2．－II－e（eurie）．To the lord．lii．
－YY－di．Loc．xxxvii．3，23；xxxviii．8， 38 ；xxxix．2，26， 50 ；xl． $25,47,75$ ；xli． 2 ；xliii． 20,44 ；xlvi． 24 ；l． 8.
3．－II－Y｜ cśigani．
${ }^{1}$ In one or two cases，it will be noticed，the pronunciation given on pp .421 ， 422，has been corrected．

4．$=Y Y Y$（tarais）．Pozcerful．xx．6；xxii．5；xxvi．6； xxyi．（2，） 5 ；xxvii． 11 ；xxix． 10 ；xxxiii． 19 ；xxxy． 7 ； xxxvi． 9 ；l． 33 ；li．iii． 9 ；lii．；lvi．（4，） 5.
5．Man（hasis）．Man．v．50，etc．In r． 50 it interchanges with＝－1
6．$=\boldsymbol{Y} Y$ YYY $Y \lll$（？ibirani）．Men，persons．xxxrii．40； xxxriii． 21,46 ；xxxix． 14 ；xl． 37 ；xli． 8 ；1r． 13 ．See No． 9.
E－YY EYYY $Y$＜＜＜－ra－ni．xxxix． 35.
EYYY Y＜＜＜－ra－ni．liii． 6.
－ry－ra－a－ni－tsi．$\quad$ xxur．A． 8 Obr．；xlv． 40.
EYYーシYYY－a－ri．xxxi． 13.
EYYY－a－ri－e．$\quad$ マ． 78.
＝YYY－a－ri．r． $28 .{ }^{1}$
7．YY．Son．li． 8.
8．च—se $Y \lll$ ．xxxviii．19， 45 ；xlix．9，20，23．The mord ends in－8is．
〔【－se．xxxi． 15 ；xxxrii． 13 ；xxxix．6；xlf． 12 ； xlix． 26.
9．EYY．People．xxxviii．20，45．See No． 6.
－YY－ra－a－ni－tsi．xxxv．A． 8 Obr．；xlf． 40.
＝1Y－hu－e－di－a．xxxi． 18.
－ry－hu－e－di－a－ni．slix． 20.
－y－hu－e－da－śi－ni．The rank and file．xl． 79.

10.
－
11．
12．$=$ 信 $\backslash \lll$ ．Peoples，languages．v．3，34；19，57；25，73； 30，81；31，83．M．Guyard considers that the ideograph means＇all．＇

[^249]13. ${ }^{4}$ (ebanis). Country. Passim. See tit Ebanie, etc.

4 -ni-i-e. xxx. 7 ; xlvi. 4.
${ }^{4}$ - $-n$ i-e. xxxiii. 3; xxxiv. 2; xxxvi. 7 ; xxxvii. 18; xxxviii. $6,26,52$; xxxix. 47 ; xl. 73 ; xli. 6 ; xliii. 34,48 ; xlr. 35, 36 ; xlix. 2 ; l. 3.
tiAni. xxix.B. 5 ; xxxiv. 8 ; xxxviii. 16 ; xxxix. 56 ; xl. 69 ; liv. 1.
Å-ni-e-di. Loc. xxxvii. 11.
\#-ni-di. xlv. 2; 1. 12.
ta -ni-ni. Adj. xxxii. 5.
\& -ni-a. Countryfolk. xli. 6 ; xliii. 24, 38, 53 ; xlix 8.
14. $=\ \ \$ (inanis). City. $\quad$. 20, 58 ; ix. 2 ; xiii. 2,3 ; xxxviii. 4.
 44 ; xxxix. $3,13,57$; xl. 58 ; xli. 7; xliii. 4, 38, 53 ; xliv. 7 ; xlix. 8 ; l. 15, 17.
$==Y$ Y-ni-e. lii.

- = Y
- = Y
$-=Y$-se. Belonging to the city. x. 4 ; xii. 1. Cp. zai.nis and zai-sis.
$==Y Y \mid \lll<-t s i-e . \quad x x x v i i .57$.
$-=Y$-e-a-tsi-da-ni. xxxiv. 15.
$==Y$ < - Sis. Royal city. xxx. 8, etc. Cf. xxxvii. 12. - = YY <

15. $2 Y Y Y Y$ (asis). House. Xxiv. 5.

EYYYY -e. iv.
$=Y Y Y Y$ Y<<<-ri-a (dhuluria). People of the palaces. xliii. 75.
16. ZYYY EY- (asida, dhuluris). Palace. ix. 2; xiii. 2, 3; xvii. 5; xxxv. 3; xliii. 3; lv. 17.

EYYYY EY- Y<<<. Pl. xxxvii. 7; xxxviii. 19, 44; xxxix. 24, 57 ; xliii. 24, 79 ; xlv. 6 ; xlix. 8, 18, 22; 1. 15, 16.
EYYY EY-Y<<<-ri-a. See above.
EYYYY EY-Y<<<-e-di. Loc. 1. 26.
EYY EYYYY EY-. People of the palace. xi.A. 1.

EYYYY EY－si－a（asia）．People of the palace．xxxv．A． 3 Obv．
EYYYY EY－ni－a（asinia）．People belonging to the palace． xxxr．A． 6 Obr．
＝YYY EY－－si－da（asida）．Palace．xxx． 9.
＝YYYY Ey－si－du－hu－hu－da．The site of the palaces．xxxix． 24 ．
17．$=Y Y Y Y=Y Y \& . \quad$ Firm house（？）．xi．A． 2.
18．＝－y（sais，zai－nis，sai－sis）．Gate，pass．ャ．2，33；16， 54 ； 20,58 ；x． 4,8 ；xi． 2 ；xvi． 6 ；lvi．（1．） 12,13 ，（3．） 2.
＝－ry－i．Gen．xri． 2.
ニニサザe．xvi． 5.
＝－Yr－li．Perfective．xrii． 4 ；xriii． 3.
E－ry－na．Belonging to the land of the gate．xri．4；1ri． （1．） 10 ．

19． puluši＇written stone＇see puluśi．
20． MY （armanida）．Tablet．xvi．1．See Armanidad． FYYY－ni－ni．Adj．liv．4．See $=Y Y Y Y Y$－e－se－e， 1． 30.
CYYY 太AY．xx． 10 ；xxi．11；xxii．7；xxx． 29 ；xxxiii． 22；xxxr．A． 2 Rer．；xliii．57；xliv．4；xlr．5；xlriii．16； 1． 35 ；li． 11 ；livi．（3．） 13.
21．$\langle Y Y=Y Y$（tuais）．Gold．xxx．16；1．25．See xlr． 20.
22．$\langle Y Y$ AY．Silver．xxx．16；xiv． $20 ; 1.25$.

24．EY EY．A maneh．xlv．20，21， 24.
25．$\Rightarrow$（khusus）．Flesh．See liv． 4.
26．二用．Food．ャ． 24.
＝－而－ni．Acc．x．1，4；xii． 1.

$=Y Y Y=-n i . \quad$ Food．Ii． 8.
27．（halis）．To be sacrificed．r．30， 31.
＝－e．Dat．xix． 7.

28．（rukus）．A victim．See xix． 14.
EIY．．．si $Y \lll$ na．Belonging to the land of the victims． zix． 5.
29．（susis）．Sheep．v．22，etc．See v．36，etc．
FIV 〈＜＜．Pl．v． 4 ，etc．；xli．14；xlv． 25.
Ey－se．xxxi．17；xxxix．43；xli． 9.
30．＝1～（pakhinis）．An ox．v．4，36，etc．；x． 5.
＝Y\＆Y＜＜＜．Pl．r．4，36，etc．；xlv． 25.
31．＝1ヶ人 人 Wild ox．v．21．See Gurukhu．
＝Y\＆＜－se．Pl．xlv．25．Se probably should be $Y \lll<$ ．

33．YYY $Y$ Y $Y \lll($（ul（？）dhuni）．Camels．xxxix． 43；x1．60；xliii． 7.
34． ＇belonging to horses．＇
気： xxxviii． $1,22,47$ ；xl．5，38，62 ；xli．9；sliii．7，29，66； xlv． 13 ；xlix． $10,27$.

35．$-\nmid \prec \lll \ll$（sekhiri）．Alive．xxxii．9；xxxviii．20，45； sli． 8.
－$>$－- －ni．x． 5 ；xii． 2.
36．AYY－e．Many．xliii．79．Perhaps pronounced alšuisie．
AY－da．Place of many．xxx． 19.
37．A．In all．xlix． 26.
38．－- ．Hostile．xl． 73.
39．【 xxxix．13；xli．7；xliii．24，38，53， 74 ；xlix． 8 ；l． 17.
40．${ }^{2}$－ni－ni．For the gifts．li． 8.
41．$\ \lll<-d a . \quad$ Buildings．sliii． 79 ．
42．＊．Twice．xxxvii．14，40；xxxviii． 21.
＊－e．sliii． 17.
43．FFY Y．Sixty．sliii．16， 78.

44．तौ th．Four fours．xxviii． 10 ；xliv． 17 ；xlviii． 22 ．See No． 59.
45．T．Times．xliv． 17 ；xlviii． 22.
46．＝YYYY $\rightarrow$ YEY Y＜＜＜（astiu）．War－magazines．xlv．21， 25.
47．$\rightarrow$（atsus）．Month．xxir．6．See xlriii． 10.
48．Y HA ．One year．xxxvii． 16 ；xxxviii． 24 ；xxxix． 19 ；xl． 41， 66 ；xliii． 10,69 ；xlix． $26,29$.
49．$-\boldsymbol{Y}$ Y《＜＜．The gods．v．3， $34 ; 15,53 ; 17,54 ; 19,57$ ； 24,$67 ; 25,73 ; 28,78 ; 30,81 ; 31,83$ ；xxii． 11 ；xxxiv． 21 ；xxxriii．10， 40 ；xxxix．28，52；xl．29，49，77；xliii． 46 ；l． 10 ．
－Y Yく＜＜－se．xx．16；xxx．34；xxxiii．26；xliv．15； xlviii． 21 ；1． 38 ；li． 11.
－Y $Y \lll<$－se－di．Loc．Sing．xix． 10 ．
$\rightarrow$ Y $Y \lll$－as－te．Loc．Pl．xxstiii．9，39；xxxix．2，27， 51 ； xl． $27,48,76$ ；xli． 3 ；xliii． 21,45 ；xlvi． 26 ；1． 8.
－－i－e．Of the god．xlviii．13．The mord for＂god＂is either asis，in which ease it would have the same sound as the word for＇house，＇or a word which terminates in－asis．
50．$\rightarrow$ Y（Ardinis）．The Sun－god．下．3，34；4，36；16，54； xxi． 13 ；xli． 19.
－ 4 － $\mathrm{-}$ ．xx． 16 ；xxii． 11 ；xxviii． 8 ；xxxiii． 25 ；xxxir． 20 ；xliv． 15 ；xlviii． 21 ；l． 38 ；li． 11 ；lvi．（3．） 13.
－ $\mathcal{Y}$ EY－ni－s．xx． 16 ；xxx． 33.
－午－di．Loc．xxxrii．3， 23 ；xxxviii．9，38；xxxix．2， 26， 50 ；xl．25，48， 76 ；xli． 2 ；xliii．21， 44.
－Y Ey－ni－di．xlvi． 25 ；l． 8.
－Yy（Ardinis）．The day．v． 2 ；xix．19；xxiv． 6.
－Y Y－ni．Durring the day，publicly．xx．16；xxi． 14 ； xxii． 12 ；xxx． 34 ；xxxiii． 26 ；xxsiv． 21 ；xliv． 17 ；xlviii． 10， 22 ；li． 11.
－Y－ni－ni．Day by day．т． 34.
51．－\＆H（Teisbas）．The Air－god．xx． 15 ；xxi． 13.
－ 4 －s．xxii． 11 ；xxviii． 8 ；xxx． 33 ；xxxiii． 35 ； xxxiv． 20 ；xxxr．A． 11 Rer．；xliv． 15 ；xlriii． 21 ；l． 38 ； li． 11 ；lvi．（3．） 13.


-     * 
- 4 -II -di. Lock. xxxvii. 3, 23; xxxviii. 9, 38; xxxix. 2, 26, 50 ; xl. 26, 48, 75 ; xii. 2 ; xiii. 20, 44 ; xlvi. 25 ; l. 8.
$52 .{ }^{1}$ - $\langle\lll($ Selardis $)$ v. 7.

53. Citadel. lvi. (1.) 8. Probably pronounced arniusinida.
 Probably pronounced Harśis.
ti $\Longrightarrow$-ni-ni. Belonging to the Assyrians. xl. 36. (? Harśi-ni-ni.)
54. YY R River. xxxviii. 17 ; xxxix. 61 ; xiiii. 17.
55. 1 -hu-e-di-a (lutuvedia). Womenfolk. xxxviii. 46 ; xiv. 39.

人
人 -hu-e-di-i-a-ni. xxxvii. 13, 30, 39 ; xxxix. 59,65 ; xiii. 26 ; xiv. 13.
57. $Y \lll<$. Wooden objects. v. 29, 80.
?58. -li. To the dead (?). v. 7, 40. Should perhaps be read till.
59. F -ni. To the four. v. 12, 49. See No. 44.
60. $Y$ placed at the beginning of an inscription, lii., as in the Assyrian bilingual tablets. Hence the word-divider of the Persian inscriptions.

## VOCABULARY OF THE WORDS IN THE ASSYRIAN TEXTS.

## $\boldsymbol{N}$

$=Y$ Al-ni-hu-nu. The city of Alniun, which seems to hare preceded Van. i. 6 ; ii. 8.
$Y$ (Ana). To, for. i. 6; ii. 7.
Ana-cu. I. i. 7 ; ii. 8.
${ }^{1}$ The compound ideograph $\rightarrow Y$ YY "heaven" must be excised, and "citadel" substituted for it.

An-ni-hu. This. i. 7 ; ii. 8.
An-nu-te. These. i. 6; ii. 7.

## 7

Dan-nu. Powerful. i. 1 ; ii. 2.
Dur. Fortress. i. 7; ii. 8.

EYYY Istu. From. i. 6 ; ii. 8.

## 7

Cu-bu-la-ni. Habitations (?). i. 6; ii. 7.
Ca-ca-ar. Ground. i. 6 ; ii. 7.
Can-śu-te. Obedient (pl.). i. 3 ; ii. 4.
Mu-sae-nis. Subduer (shaphel part.).

$$
\zeta
$$

La. Not. i. 3 ; ii. 4.
La-di-ru. Unfearing. i. 3 ; ii. 3. For la adieu.
Libbi. Heart, midst. i. 6 ; ii. 7.
Y Lu-ti-ip-ri. Lutipris. i. 1, 4, 5; ii. 1, 5, 6.

## $\Delta$

Mana. This (suffixed pron.). i. 6 ; ii. 7.
Am-khar. I received. i. 5 ; ii. 6.
Ma-da-tar. Tribute. i. 5; ii. 6. For mandantar, from $\dagger$ ' ' to give' (ЛJ).

## i

It Na-i-ri. Riverland (i.e. Biainas). i. 2 ; ii. 2.
No-tsa-cu. $I$ remove (1st pers. S. permansire Gal). i. 7 ; ii. 8. Should perhaps be matsacu 'I hare found.'

## D

$Y \rightarrow Y$-ri-dur. S'ariduris. i. 1, 4, 5; ii. 1, 5, 6 .

## 7

Rab-e. Great. i. 1; ii. 1.
Ar-ti-tsi-ip. I built (for artetsip 1st. pers. S. Iphteal aor.). i. 7 ; ii. 8 .

## U

Sa. Of, whom. i. 1, 4; ii. 1, 5.
Sa-nin. Rival. i. 2; ii. 2.
Su. His, him. i. 2, 3; ii. 2, 4.
Su-nu. Them. i. 4 ; ii. 5.

## ת

Tap-ra-te. Habitations. i. 2; ii. 3. Tu ( ${ }^{\text {N }}$ )-ku-un-te. Opposition (pl. fem.). i. 3 ; ii. 4.

## ASSYRIAN IDEOGRAPHS.

1. ? <. ? Tablet. i. 1.
2. Q $\mathbb{H}$ ? Tablet. ii. 1.
3. $Y \boldsymbol{Y}$ (Abil). Son. i. 1,5 ; ii. 1, 5, 6. See above, No. 7.
4. $\langle<$. King. i. 1, 2, 3, 4 ; ii. 1, 2, 4, 5. See above, No. 1.
$\langle<\zeta \lll-n i($ sarrani $)$. Kings. i. 4 ; ii. $5,6$.
5. (Cissati). Mfultitudes. i. 1 ; ii. 2.
6. $\mathcal{f}(l a \hat{a}$. Not. i. 2 ; ii. 3.
7. (Cal). All. i. 4 ; ii. 5.
8. YY-hu (ibsu). He was. i. 2 ; ii. 3.
9. (Rihu). Shepherd. i. 2 ; ii. 3.

## ERRATA AND CORRECTIONS.

Page 453, line 26. For there read these.
Page 463, line 20. For l. read li.
Page 496, note 1. For lxv. read xlv.
Page 632. For xlvii. read xlriii.
Page 650. M. Guyard ingeniously suggests that we should read a-lu-s liha-hu-da-e in line 8, and $Y-8$ as alu-s in line 10. In this case the original meaning of alus would be 'one.'

Art. XXIV.-Sanshyit Text of the Sihshä-Patrì of the ScämiNärayana Sect. Edited by Professor Monier Williams, C.I.E., D.C.L.
[The text of the Śikshī-patrī of the modern Vaishṇava Sect, called Svāmi-Nūrāyaṇa, was lithographed in Samvat 1928 (a.D. 1872) by order of the Heads of the Sect. It has a Gujarātī Commentary by Nityānanda-muni. So far as I know, this is the only version of the text that has yet appeared. It was given to me by the Wartāl Mahāraja on the occasion of my first visit to Wartal in 1875. It is full of mistakes, and in preparing the following edition of the text I have taken as niy guide the far more accurate manuscript and Sanskrit commentary written by Paṇḍit Śatīnanda-muni, and given to me by the Mahārāja on the same occasion.]

## श्रीहरिक्ृष्पाय नमः

## ॥ अ्रघ शिचापनी लिख्यते ॥

वामे यस्स स्थिता राधा ग्रीश्य यस्सास्ति वन्चसि। वृन्दावनविहारं तं श्रीप्वप्णां हृदि चिन्तये॥ १॥ लिखामि सहजानन्दः खामी सर्वान्निजाश्रितान् । नानादेश्शिस्थिताज् शिच्चापनों वृत्तालयस्थितः॥ २॥ भानो रामप्रतापेच्छारामयोर्धर्मजन्मनोः। यावयोध्याप्रसादाख्यरघुवी राभिधौ मुतौ ॥ ३॥ मुकुन्द्रानन्दमुख्याग्य नेष्ठिका व्रह्मचारिएः।
गृहस्थाश्च मयारामभट्टाद्या ये मदाग्रया: ॥४॥ सधवा विधवा योषा यास्च्मच्छिष्यतां गताः।

स्वधर्मर चका मे तै: सर्वैवाचाः सद्वाशिषः।
श्रीमनारायएास्मृत्या सहिता: शा स्त्रसम्मता: ॥ ह॥ एकाग्येलेव मनसा पनोलेखः सहहतुकः।
अ्रवधार्योंड यमखिलै: सर्वजोवहितावहः ॥ ७॥
ये पालयन्ति मनुजाः सच्छास्त्रपतिपादितान् ।
 तानुल्लद्धान्न वर्त्तन्ते ये तु सेरं कुनुद्धयः।
त दहामुच च महल्नभन्ते कष्टमेव हि ॥ $॥ \|$ न्रतो भव⿸्वार्मर्चिण्ये: सावधानतयाड खिले:। प्रीय्येतामनुमृत्यैव वर्तितब्यं निरन्तरम ॥१०॥ कस्यापि प्राएिनो हिंसा नैव कार्याच मामकेः। सून्मयूकामत्कुएादे रपि वुद्या कद्वाचन॥११॥ देवतापितृयागार्थमप्यजादेश्य fहंसनम् ॥ न कर्त्तव्यमाहंसैव धर्म: प्रोतोऽस्ति यन् महान् ॥ १२॥ स्तिया धनस्य वाप्राप्ये साम्राज्यस्य च वा क्षचित्। मनुप्यस्य तु कस्यापि हिंसा कार्या न सर्वथा॥१३॥ ग्रात्मघातसु तीथें पि न कर्त्तव्यम्च न क्रुधा। अ्रयोग्याच र एात्क्वापि न विषोद्वन्धनादिना॥ १४॥
न भच्यं सर्वथा मांसं यर्जशिष्टमपि क्वचित्।
न पेयं च सुरामघमपि देवनिवेदितम् ॥१५॥
अ्रकार्याचरऐ क्वापि जाते स्स परस का।
अ्रद्ने द्हो न कर्त्तव्यः श्स्त्राबेस्च क्रुधापि वा ॥१६॥ सेनकर्म न कर्त्त्यं धर्मार्थमपि केनचित्।
सस्बामिकाधपुष्पादि न ग्राह्यं तट्नाज्चया ॥१७॥ व्यभिचारो न कर्त्तव्यः पुभ्भिः स्त्रीभिय्य मां ग्रितैः। द्यूतादिव्यसनं त्याज्यं नाद्यं भङ्गादिमाद्कम् ॥ १६॥

स्रग्राह्यानेन पद्वं यद्नं तदुद्कं च न। जगनाथपुरं हित्वा ग्राह्यं हृर्णप्रसाद्यपि ॥ १९॥ मिथ्यापवाद्: कस्मिंश्चिद्वि स्वार्थस्स सिद्धये। नारोप्यो नापशूब्द्राग्य भाषशीयाः कद्वाचन ॥ २०॥ देवतातीर्थविप्राएां साध्वीनां च सतामपि। वेदानां च न कर्त्तव्या निन्द्रा ग्रव्या न च द्वाचत् ॥ २१ ॥ देवताये भवेद्यस्स मुरामांसनिवेदनम। यत्पुरोऽजादिहिंसा च न भच्यं तनिवेदित्तम् ॥ २२॥ दृष्दा श्रिवालयादीनि देवागाराएि वर्म्मनि। प्रएगम्य तानि तद्टेवदर्श्रन कार्यमादरात् ॥ २३॥ स्ववर्याग्रमधर्मों यः स हातथ्यो न केनचित्। परधर्मों न चाचर्यों न च पाष एड कल्पितः ॥ २४ ॥ द्धप्णाभत्तेः खधर्माद्वा पतनं यस्य वाक्यतः। स्यान्तन्मुखान्त वै ग्रव्याः कथावार्ताग्र वा प्रभोः ॥ २५ ॥ सपरद्रोहजननं सत्यं भाष्यं न कर्हिचित्। क्रतघ्नसड्गस्यत्तव्यो लुग्चा ग्राह्या न कस्सचित् ॥ २६ ॥ चौरपापिव्यसनिनां सङ्गः पापषएडनां तथा। कामिनां च न कर्त्तियो जनवघ्यन कर्मएाम् ॥ २७ ॥ भकितं वा ज्ञानमालम्ब्य स्त्रीद्रव्यरसलोलुभाः। पापे प्रवर्त्तमानाः सुः कार्यस्तिषां न सड्नमः॥ २₹॥ क्षप्णह ह्ध प्णावताराएां खएडनं यन युक्तिभिः। कृतं सात्तानि शूरस्ताएि न मान्यानि कदाचन॥ २९॥ ग्रगालितं न पातव्यं पानीयं च पयस्तथा। सानादि नैव कर्त्तव्यं मून्मजन्तुमयाभ्मसा॥३०॥
यदौषधं च सुरया सम्पृंत्तं पललेन वा।
अ्रज्ञातवृ त्तवैदेन द् त्तं चादं न तत्त्क्रचित् ॥ ३१ ॥

स्खानेषु लोकशास्त्वाभ्यां निषिछ्घेषु कदाचन। मलमून्नोत्सर्जनं च न कांयं होवनं तथा॥३२॥ चद्यारेए न निर्गम्यं प्रवेष्टव्यं न तेन च। स्याने सख्वामिके वासः कार्योंडपृप्दा न तत्पतिम् ॥३३॥ ज्ञानवार्त्ताश्रुतिर्नार्या मुखात्कार्या न पूरुषे:।
न विवादः स्त्रिया कार्यों न राज्ञा न च तन्जनेः ॥३४ ॥ च्रपमानो न कर्त्तब्यो गुरूएां च वरीयसाम्।
लोके प्रतिष्टितानां च विदुषां शूस्त्रधारिएाम् ॥ ३५॥ कायँ न सहसा किच्वित्वार्यों धर्मसु सत्वरम्। पाठनीयाऽधीतविद्या कार्यः सङ्नोड न्वहं सताम् ॥३६॥ गुछदेवनृदेपच्चर्थं न गम्यं रित्रपाएएभिः।
विश्वासघातो नो कार्यः स्वस्लाघा खमुखेन च ॥ ३७॥ यर्मिन् परिहिते पि स्युर्दृश्यान्यड्नानि चात्मनः। तदूष्थं वसन नेव परिधार्य मदाश्रितेः ॥ ३६॥ धमेंया रहिता क्वप्णभक्तिः कार्या न सर्वथा। अन्चन्चन्द्राभयान्नेव त्याज्यं श्रीह्वप्पसेवनम् ॥३९॥
उत्मवाहेषु निव्यं च हृप्पमन्द्रिरागतैः।
पुम्भि: स्पृश्या न वनितास्तच ताभिय्य पूरुषाः ॥४०॥ द्वप्पदोचां गुरोःप्राष्निस्तुलसीमालिके गले।
धार्यें नित्यं चोर्ष्वपुएड्रं ललाटादी द्विजातिभिः ॥ ४१॥
तत्तु गोपीचन्दनेन चन्द्नेनाथवा हरेः।
कार्य पूजावशिष्टेन केसरादियुतेन च ॥४२॥
तन्मध्य एव कर्त्तव्यः पुएड्रद्रव्येए चन्द्रकः।
कुङ्जुㅇमेनाथवा वृत्तो राधालन्मीप्रसादिना॥ ४३॥
सच्चूद्राः हृप्पभक्ता ये तैसु मालोर्घ्वपुएड्रके।
द्विजानतवद्धार एीये निजधमैंषु संशिनिः ॥ ४४ ॥

भब्तैस्तादितरर्मगले चन्द्नादोन्धनोद्रवे।
धार्यं कएे ललाटेऽच कार्यः केवलचन्द्र क: ॥ ४५॥ निपुएड्रकृ्राच्चधृति यैपt स्यान्खकुलागता।
तैसु विप्रादिभिः क्वापि न त्याज्या सा मदास्रितेः ॥ ४ई ॥
ऐकात्म्यमेव विच्चेयं नारायएामहेश्यो:।
उभयोर्व्रह्म रूपेए वेदेषु प्रतिपाद्नात् ॥४०॥
शास्तोक्त च्रापद्घर्मो यः स ब्वल्पापदि की़िचत्।
मदाश्रितिम्मुख्यतया यहीतब्यो न मानवै: ॥ ४६॥
प्रत्यहं तु प्रवोधव्यं पूर्वमेवोदयाद्रवेः।
विधाय क्रप्णास्मर एं कार्यः शूरिविधिस्ततः ॥ ४ल॥
उपविश्येव चैकन कर्त्त्यं दन्तधावनम्।
सात्वा शुच्चम्बना धीते परिधार्यें च वाससी ॥ $40 \|$
उपविश्य ततः शुन्च ग्रासने शुचिभूतले।
अ्रसङ्रोर्ष उपस्पृथ्यं पाझ्मुखं वोत्तरामुखम् ॥ ५१॥
कर्त्तव्यमूर्ध्वपुए्रं च पुम्भिरेव सचन्द्रकम्।
कार्यः सधवनारीभिर्भाले कुङ़ुम मचन्द्र कः ॥ ५२॥
पुएड्रं वा चन्द्र को भाले न कार्यों मृतनाथया।
मनसा पूजनं कार्य ततः द्वप्पास चाखिलेः॥ ५३॥
प्रलाम्य राधाद्वध्पास्स लेख्यार्चा तत अादरात्।
शत्या जपित्वा तन्मन्नं कर्त्तव्यं ब्यावहारिकम् ॥ ५४ ॥
ये ब्बम्बरीषवद्भताः स्युरिहात्मनिवेदिनः।
तैग्र मानसपूजान्तं कार्यमुत्तक्रमेए वे ॥ ५५॥ शैली वा धातुजा मूर्त्रि: शालग्रामोऽर्चं एव तैः।
द्रव्येर्यथाप्नेः हृप्ास्य जए्योऽ थाप्टाचर्रो मनु: ॥ पई ॥ सोचादेर र्य ह्वप्पास्स पाठः कार्यः स्सश्तितः।
तथानधीतगीर्वाएल: कार्य तन्नामकीर्त्तनम् ॥ ५७॥

हरर्रविधाय नैवैद्यं भोज्यं प्रासादिंक ततः।
क्षण्पसेवापरें: प्रीत्या भवितव्यं च तै: सदा ॥ ॥६॥ पोतास्ति निर्गुएा भत्ता निर्गुएस्स हरर्यतः। सम्बन्धात्तत्क्क्रियाः सर्वा भवन्येव हि निर्गुएा: ॥ ५० ॥
भन्तररेतेस्तु कृष्णायार्नर्पितं वार्यपि द्वृचित्।
न पेयं नैव भच्यं च पनकन्द्रफलादीव ॥ छ०॥ संवैंरश्ती वृद्घत्वाद्ररीयस्यापदाऽथवा। भत्ताय कृष्पमन्यस्से दत्ता वृत्यं यथाबलम ॥ ६१॥ ग्राचार्येंलिव द्त्तं यद्यच्च तेन प्रतिषितम । क्वप्तास्वर्वपं तत्सेय्यं वन्चमेवेतरत्तु यत् ॥ छ२२॥ भगवन्मन्द्रं सनेः सायं गन्त्यमन्वहम्। नामसङ़ओर्त्तनं कार्य तनोचे राधिकापतेः ॥ ई३ ॥ कार्यास्सस्य कथावार्त्ता: श्रव्यास्य परमाद्रात्। वादि च्रसहितं कार्य क्वप्णकीर्त्तनमुत्सवे ॥ ६४ ॥ प्रत्यहं कार्यमित्यं हि सर्वेरपि मदाश्रितिः। संस्कृतप्राद्टतग्रन्याभ्यासग्चापि यथार्मति ॥ है ॥ यादृश्शैयों गुर्थर्युत्तालादृशे स तु कर्मएए। योजनीयो विचार्यैंव नान्यथा तु कदाचन ॥ छ६॥ अ्रन्नवस्त्रादिभिः संवें सकीयाः परिचारकाः। सम्भावनीयाः सततं यथायोग्यं यथाधनम् ॥ ६० ॥ यादृग्गुएो यः पुरुषस्तादृशा वचनेन सः।
देशूकालानुसारेए भाषएीयो न चान्यथा॥ हैᄃ॥ गुरूभूपालर्वर्षषत्यागिविद्द त्तपर्विनाम्।
अभ्रभुत्या नादि ना कार्यः सन्मानो विनयान्वितिःः ६ल॥
नोरी कृत्वा पादमेकं गुरदेवनृपान्तिके।
उपवेश्यं सभायां च जानू बद्धा न वाससा॥ ७०॥

विवादो नेव कर्त्तब्य: खारार्यैया सह द्वचित्। पूज्योऽन्नधनवस्त्राद्येर्यथारूक्ति स चाखिलेः॥ ७१॥ तमायान्तं निश्म म्यागु प्रत्युद्नन्त्यमाद्रात्। तस्मिन् यात्यनुगम्यं च ग्रामान्तावधि मन्क्रितेः ॥ ७२॥ अ्रपि भूरिफलं कर्म धर्मापेतं भवेद्यदि।
अ्राचर्य तर्टि तन्निव धर्म:सर्वार्घद्दो sf्ति हि ॥ ७३॥
पूर्वैर्महद्विरपि यद्धर्माचर एं क्वचित्।
दृतं स्यात्तत्तु न ग्राह्यं ग्राह्यो धर्मसु तत्कृतः॥ ७४ ॥ गुह्यवार्त्ता तु कस्यापि प्रकाश्या नेव कुर्नचित्॥ समदृध्या न कार्यम्च यथाहींर्चाव्यतिक्रम:॥ ७५॥ विशेषनियमो धार्यग्चातुर्मास्ये डखिलेरपि। एकस्मिज् ग्रावती मासि स ल्वशूत्तेसु मानवै: ॥ ७६॥ विप्योः कथायाः ग्रवएां वाचनं गुएकोर्त्तनम्। महापूजा मन्त्तजपः स्रोचपाठः प्रद्चिएा: ॥ ७७॥ साष्टाड्नम्राति स्थेति नियमा उत्तमा मताः। एतेष्वेकतमो भत्ता धार एोयो विशेपतः॥ ৩६॥ एकादश्शीनां सर्वासां कर्त्तव्यं व्रतमादरात्। क्रण्पजन्मद्निनां च शिवराचेग्य सोत्सवं ॥ ७८॥ उपवासदिने त्याज्या दिवानिट्रा प्रयन्नतः। उपवासस्तया नथ्येन्मेथुनेनेव यनृएाम् ॥ ${ }^{\circ} \|$ सर्वंबैप्पावराजश्रीवल्लभाचार्यनन्ह्न:। श्रीवित्रुलेश्: हृत वान् यं ब्रतोत्सर्वनिर्षायम् ॥ ६१ ॥ कार्यास्तमनुमृत्ये व सर्व एवव्रतोत्सवा:
सेवारीतिय्य कृष्यास्य ग्राह्या तदुदितैव हि ॥ च२ ॥ कर्त्तब्या द्वारिकामुख्यतीर्थयाना यथाविधि।
सर्वैरपपि यथार्शत्ति भाव्यं दीनेषु वस्सलेः ॥ ᄃ३ ॥

विष्णु：शिवो गसापतिः पार्वती च द्वाकरः।
एता：पूज्यतया मान्या देवताः पच्च मामके：॥ ॥४ ॥ भूतादुपद्र्रवे क्वापि वर्म नारायएात्मकं। जम्यं च हनुमन्मन्तो जप्यो न चुद्रद्रेवतः ॥ $\check{\Psi}_{\|} \|$ रवेरिन्द्योश्योपरागे जायमाने डपराः क्रियाः। हिल्बTSS शु णुचिभिः सर्वैः कार्यः हृृप्पमनोर्जपः ॥ च््ह॥ जातायामथ तन्मुकौ क्रत्वा सानं सचेलकं।
देयं दानं गृहिजनि：शूत्तान्येस्वर्च्च द्रश्वरः ॥ च्७॥ जन्माशीचं मृताशौचं खसम्बन्धानुसारतः।
पालनीयं यथाशास्त्रं चातुर्वर्खजनेमीम॥ ॥₹॥ भाव्यं श्मद्मचान्तिसन्तोषादिगुएान्विति：। ब्रान्मए：शौर्यंधेर्यादिगुएोपितिस्च बाऊजै：॥ च्ट॥ वैश्येग्च कृषिवा एिज्यकुसी दमुखवृत्तिभिः। भवितब्यं तथा शूद्रैद्दिजसेवादिवृत्तिभिः॥ ८०॥ संस्काराश्वान्हिकं ग्राघं यथाकालं यथाधनम। सख्वगृह्यानुसारे एा कर्त्तव्यं च द्विजन्मभिः ॥ ल१॥习习习习ानाज्चानतो वारप गुण वा लघुपातकं। क्वापि सार्तार्ति तत्पा यच्चित्तं कार्यै स्वर्शत्तितः ॥ ८२॥ वेदाश्च व्याससू चाएा ग्रीमझ्ञागवताभिधम्। पुराएं भारते तु श्रीविष्पोर्नामसहसकम् ॥ ८३ ॥ तथा ग्रोभगवद्नीता नीतिय्य विदुरोदिता। श्रीवासु देवमाहात्म्यं सान्द्वेप्पवख खडडग् ॥ ८४॥ धर्मशास्त्रान्नर्गता च याज्चवल्यनषे：स्मृति：। एतान्यप्यमेशानि सच्छास्त्राए भवन्त्ति हि॥ल॥॥ खहितेज्छुभिरेतानि मच्छिष्ये：सकलेरपि। श्रोतब्यान्यथ पाद्यार्नि कथनीयानि च द्विजे：॥ लई ॥

तनाचारव्यवहितिनिष्कृतानां च निर्एये। याल्या मिताच्चरोपेता याच्चवल्क्यस तु स्मृतिः ॥ ৎఅ ॥ श्रीमझ्ञागवतर्यषष स्र्ध्धी दश्श्पपझ्चमी। सर्वाधिकतया ज्चेयी क्रप्णमाहात्यनुद्दये ॥ $e \Gamma^{\|}$ दश्रमः पः्चम: र्लन्धो याज्चवलक्यस्स च स्मृतिः। भनिशाशस्तं योगशूस्त्रं धर्मशास्त्वं क्रमेय मे॥ ८e॥ शारीरकायां भगवद्नीतायायावगम्यताम्। रामानुजाचार्यक्रतं भाथ्यमाध्यात्मिकं मम ॥ १०० ॥ एतेषु यानि वाक्यानि ग्रीक्वप्एस्य वृषस्य च। उ्रय्युत्कर्षपराएि स्युस्तथा भत्तिविरागयोः ॥१०१॥ मन्तर्यानि प्रधानानि तान्येदेतरवाक्यतः। धमैंण सीहता क्वप्सर्भन्तः कार्येंत तद्रहः ॥१०२॥ धर्मों ज्चेयः सदाचारः ग्रुतिस्मृत्युपपाद्तिः। माहात्य ज्ञानयुग्भूरि स्नेहो भाक्ताण्व माधवे ॥ १०३॥ वेराग्यं च्चेयमप्रीतिः श्रीक्रष्ऐोतरवस्तुषु। जानं च जीवमायेश्रुपाएां मुपुवेद्नम् ॥ १०४ ॥ हृत्तोड डलुमून्म्मयिद्रूपो ज्ञाता व्याप्याखिलां तनुं। ज्ञानशूत्या स्थितो जीवो ज्येयोs च्छेदादिल चएएः ॥ ३०५॥ निगुएात्मा तम: द्धप्ण रून्तिर्देहतद्रीययोः।
जीवस्य चाहम्ममताहेतुर्मायाऽ वगम्यताम् ॥ १०६॥ हृद्ये जीववज्जीवे यो ः न्लर्यामितया स्थितः। ज्ञेयः स्वतन्त्र द्रोशोऽसी सर्वकर्मफलप्रद्ः॥ १०७॥ स श्रोद्वप्पः परं व्रह्म भगवान् पुरुषोत्तमः। उपास्य द्पद्देवो न: सर्वाविर्भावकार एम् ॥ १०ะ॥
स राधया युतो च्चेयो राधाद्वप्प द्वात प्रभु:। रुकिसएा रमयोपेतो लन्दीनारायए: स हि॥ १०e॥

ज्ञेयो $\leqslant$ जुनेन युत्तो $s$ सी नरनारायएाभिध:।
बलमद्रादियोगेन तत्त्तामोच्यते स च ॥११०॥
एते राधाद्यो भत्तास्तस्य सुः पार्श्वतः वृृचत्।
क्षचिच्तदङ्ने ऽfिस्नेहात्स तु ज्रेयस्सद् कलः॥ १११॥
अ्रतश्वास्स खरूपेषु मेदो च्चेयो न सर्वथा।
चतुरादिभुजबं तु द्विवाहो सस्स चैच्किकं॥ ११२॥
तस्यैव सर्वथा भक्तिः कर्त्रव्या मनुजैर्भुवि।
fि:श्रेयसकरं किच्चित्ततोऽ न्यकेति दृश्यताम् ॥ ११३ ॥
गुणानां गुएवत्ताया ज्ञेयं ह्येतत्परं फलम।
कृष्यो र्भात्तय्व सत्सड्नोऽ न्यथा यान्ति विद्रो sप्यधः ॥ ११४ ॥
द्रप्स स्तद्वतारगण्य धेयास्तत्रतिमापि च।
न तु जोवा नृदेवादा भत्ता ब्रह्मावदोऽपि च ॥११५॥
निजात्मानं व्रह्मरूपं देहनयविलन्तां।
विभाब्य तेन कर्त्तव्या भक्तिः क्वप्णस्स सर्वदा ॥ ११६ः॥
ग्रव्यः श्रीमझ्भागवतद्श्श्कन्ध च्राद्रात्।
प्रत्यहं वा सद्वद्वर्षे वर्षे वाच्चोऽ पएिडतै: ॥ ११७॥
कारणीया पुरस्यर्या पुस्यस्थानेऽ स्य शून्तितः।
विष्णुनामसहस्तादे श्यापि कार्यैप्सितप्रद् ॥ ११६॥
दैव्यामापदि कषायां मानुष्यां वाडगदादिषु।
यथा ख्वपररचा स्यात्तथा वृत्यं न चान्यथा॥११९॥
देश कालवयोवित्तजातिश्तयनुसारतः।
ग्राचारो व्यवहारश्य निष्कृतं चावधार्यतां ॥१२०॥
मतं विशिषाद्दैतं मे गोलोको धाम चेप्सिम्।
तन ब्रह्मात्मना क्वष्णसेवा मुक्तिय्य गम्यताम् ॥१२१ ॥
एते साधार एा धर्माः पुंसां स्त्री एां च सर्वतः।
मद्वश्रितानां कधितт विशेषानथ की र्त्रये ॥ १२२॥

मज्येषावर जम्रातृमु ताभ्यां तु कदाचन। सासन्नसम्बन्धहोना नोपदेश्या हि योषितः ॥१२३ ॥ न स्पप्ट्याश्च ता: क्वापि भाष योयाश्च ता न हि। क्रीर्य कार्य न कस्मिंग्चिन् न्यासो रच्यो न कस्यचित् ॥ १२४॥ ॥ प्रतिमूब्वं न कस्सापि कार्य च व्यावहारिके।
भिच्यापद्दतिक्रम्या न तु कार्यमृषां द्वचित्॥ १२५॥
सशिप्यार्पितधान्यस्य कर्त्तब्यो विक्रयो न च।
जोर्थं दत्त्वा नवीनं तु ग्राद्यं तनिष विक्रयःः १२६॥ भाद्र गुक्राचतुर्थ्यों च कार्य विद्नेश्रपूजनम्।
द्धष्ठप्पचतुर्दश्यां कार्या $s$ चर च हनूमतः ॥१२७॥ मदाश्रितानां सर्वैषां धर्म रचएाहेतवे।
गुरूले स्थापिताभ्बां च ताभ्यां दीच्या मुमुच्चवः॥ १२₹॥ यथाधिकारं संस्थाप्याः से से धर्मे निजा: श्रिताः। मान्या: सन्तय्य कर्त्त्यः स च्छास्त्राभ्यास स्रादरात् ॥१२ल॥ मया प्रतिषापितानां मन्द्रिषु महत्तु च। लन्मोनारायणादीनां सेवा कार्या यथाविधि॥१३०॥ भगवन्मन्टरंर प्राप्तोऽनार्थी कोfि मानवः
अाद्रात्स तु सम्भावो दानेनानस्स शूत्तितः॥ १३१॥ ॥ संस्थाप्य विप्रं विद्यांसं पाठशालां विधाप्य च।
प्रवर्त्तनीया सद्विधा भुवि यत्तुक्रतं महृत् ॥१३२॥ अ्रथितयोसु भार्याभ्यामाच्चया पत्युरात्मनः।
क्वप्णमन्त्रोपदेश्य कर्त्तथ्य: स्त्रीभ्य एव हि ॥१३३॥ सासन्नसम्बन्धहोना नरास्ताभ्थां तु कfहिंचित्।
न स्पप्टव्या न भाप्याग्य तैभ्यो दर्यंय मुखं न च ॥१३४॥
गृहाल्याश्रमियो ये स्युः पुरूषा मदुपाश्रिताः।
सासन्नसम्बन्धह्होना न स्पृश्या विधवाग्च तै: ॥१३५॥

माना स्ससा दुह्हिना वा विजने तु वयःस्थया। अ्न्रनापदि न तैः खेयं कार्य दानं न योषितः ॥ १३ई्६॥ प्रसढ़्नो ब्यवहारेए यस्सा: केनापि भूपतेः।
भवेत्तस्या: स्त्रियाः कार्यः प्रसङ़ो नैव सर्वथा॥१३०॥ चन्नाधे: जूलितोऽम्यर्चों ह्यतिथिस्तिगृहागतः।
दैवं पिन्चं यथार्शत्ति कर्त्त्यं च यथोचितं ॥ १३६॥ यावन्जोवं च शुश्रूषा कार्यर मातुः पितुर्गुरोः। रोगार्तास्स मनुपस्स यथाश्शत्ति च मामकै:॥ १३९॥ यथाश्नत्युद्यमः कार्यों निजवर्ांग्र्रमोचितः। मुप्छच्छेदो न कर्त्तब्यो वृषस्स क्वाषवृत्तिभिः ॥ $980 \|$ यथार्शत्ति यथाकालं सझ्वहोऽ नधनस्य तैः॥ यावद्ययं च कर्त्तव्यः पशुम्मद्ञिस्तृएस्य च॥ ॥४१॥ गवादीनां पशूनां च तृषतोयादिभिर्यदि। सम्भावनं भवेत्सेन रच्यासे तर्ही नान्यथा॥ १४२॥ ससाच्यमन्तरा लेखं पुर्नमि नादिनापि च। भूवित्तदानादानाभ्यां व्यवहार्य न कfहचित् ॥ १४३ः कार्ये वैवाहिके खस्यान्यस्य वाऽर्यंधनस्ख तु। भाषाबन्धो न कर्त्तव्यः ससाच्यलेखमन्तरा॥१४४॥ अ्रायद्रव्यानुसारेए व्ययः कायों हि सर्वद्व।
अ्रन्यथा तु महदुः खं भवेदित्यवधार्यताम्य१८५॥
द्रव्यस्सायो भवेद्यावान् व्ययो वा व्यावहारिके।
 निजवृत्युद्यमप्राप्नधनधान्याद्तद्तग्य तैः।

एकादश्शीमुखानां च व्रतानां निजर्शकतः।
उद्यापनं यथाशास्त्रं कर्त्तव्य चिन्तितार्थद्यम्॥ १४६॥

कर्त्तव्य कार्एीयं वा ग्रावणे मासि सर्वथा।
बिल्वपनादि भि: प्रीत्या श्रीमहादे वपूजनम् ॥ १४८॥ साचार्याद्न ऋहंयं ग्राह्यं ग्रीक्टप्णास्य मन्द्रित्। ताभ्यां सव्यवहारार्थ पाचभूघांशुकार्द च॥ १५०॥ श्रोद्वप्पगुरुसाधूनां दर्श्शनार्थ गतौ पथि। तत्स्थानेषु च न ग्राह्यं परानं निजपुएयहृत् ॥ १५१॥ प्रतिज्ञातं धनं देयं यरस्याचत्तर्म कारिए।। न गोप्यमृए शुद्धादि व्यवह।र्य न दुर्जनेः॥ १५२॥ दुष्कालस्य रिपूएां वा नृपस्सोपद्र वे ए वा। ल ज्जाधनप्रा यनाश्: प्राप्तः स्याद्यन सर्वथा ॥ १५३ः मूलदेश्शोड पि स स्वेषां सद्य एव विचच्चसी:।
त्याज्यो मद्वश्रिति: स्थियं गत्वा देशान्तरं मुखम् ॥ १५४॥ ग्राढैस्तु गृहिभि: कार्या उ्रहिंसा वैप्णवा मखाः। तीचैचु पर्वसु तथा भोज्या विप्राय्य साधवः॥ १५५॥ महोत्सवा भगवतः कर्त्तव्या मन्द्र रे पु तै:। देयानि पार्चविप्रेभ्यो दानानि विविधानन च॥ १५६॥ मदाश्रितै नृपैर्धर्मशा स्त्रमाश्रित्य चाखिला:। प्रजा: साः पुन्वत्पाल्या धर्म: स्थाप्यो धरातले ॥ १५७॥ राज्याड़ोपा य षड्वगों ज्ञेयास्तीर्थानि चाअसा। व्यवहारविद्: सभ्या द्रड्य। द्याय्याग्च लन्तयो: ॥ १५६॥ सभर्त्रृकाभिर्नारीभि: सेख्य: स्वपनितीश्रव्। अ्रन्धो रोगी दरिद्रो वा शूएढो वाच्यं न दुर्वचः ॥ १५ल॥ हूपयौव नयुक्तस्य गुएिनो न्यनर स्य तु। प्रसड़ो नैव कर्त्तव्यस्ताभि: साहजिको पि च ॥ १६० ॥ नरेच्य नाभ्यू हुकुचानुत्तरीया च नो भवेत्।
साध्वी स्त्रो न च अएडे चा न निर्लज्जाद्सद्निनी ॥ १र्द१ ॥

भूषा सदंशुकधृति: पर गेहोपवेश्नम्।
त्याज्यं हास्यादि च स्तीभि: पत्यो देशान्तरं गते ॥ १ई२॥
विधवाभिस्तु योषाभि: सेव्य: पनिधिया हरिः।
च्राज्ञायां पितृपु नादेर्वृत्यं स्वातन्त्य्यतो न तु॥ १६३३॥
सासन्नसम्बन्धहीना नरा: स्पृश्या न कर्हिचित्।
तरुलिस्सेग्य तारुखे भाष्यं नावप्यकं विना॥ १ई४४॥
स्तनन्धयस्य नु: स्पर्शे न दोषोडस्ति पशोरिव।
अ्रावश्यके च वृद्धस्य स्पर्शे तेन च भाषये॥ १र्द५॥
विद्या $\delta$ नासन्नसम्बधात्ताभिः पाय्या न कापि नु:।
व्रतोपवासे: कर्त्तव्यो मुङुदैंहदमस्तथा॥ १ईई॥
धनं च धर्मकार्ये पि स्वनिर्वाहोपयोगि घत्।
देयं ताभिर्न तत् क्वापि देयं चेद्धिकंक तदा॥ १र्६०॥
कार्यग्च सद्वद्वारार साभिः स्वापस्तु भूतले।
मेथुनास क्तयोर्वीचT क्वापि कार्या न देहिनो: ॥ १र्दू॥
वेषो न धार्य स्ताभिय्य सुवासिन्या: स्त्रयास्तथा।
न्याfसन्या वीतरागाया विक्टतय्य न कहिंचित् ॥ १ई्६९॥
सड़ो न गर्भपातिन्या: स्पर्शः कार्यग्च योषित:।
शृङ्गार वार्त्री न नॄ हां कार्या: श्रव्या न वे क्वचित् ॥ १७०॥
निजसम्बन्धिभिरपि तारुखे तरुणोर्नरे:।
सांकं रहसि न स्थेयं ताभिरापद्मन्तरा॥१७१॥
न होलाखेलनं कार्य न भूषादेय्य धारएाम्।
नधातुमून्नयुकूूच्मवस्त्रादे एपि कर्हिचित्॥ १७२॥
सधवाविधवाभिय्य न सातव्यं निरम्बरम्।
स्वरजोदर्शनं स्तोभिर्गोपनीयं न सर्वथा॥ १७३॥
मनुष्यं चांधुकादीनि नारी क्वापि रजस्वला।
दिनच्यं स्पृशेनैव सात्वा तुरैंऽ हू सा स्पृशेत्॥ १७४॥

निषिकव्रतवन्तो ये वर्षानो मदुपाश्रया:
तैः स्पृस्या न स्त्रियो भाष्या न न वोच्याश्च ता धिया ॥ १७५ ॥ तासां वार्त्ती न कर्त्त्या न श्रव्याय्य कदाचन।
तत्पाद्चारस्थानेषु न च सानादिका: क्रियाः ॥ १७६॥ देवताप्रतिमां हिल्वा लेख्याकाषाद्जापि वा। न योधित्पतिमा स्पृఖ्या न वो च्या वुद्धिपूर्वकम् ॥ १७७॥ न स्ती प्रतिकृतिः कार्या न सृख्यं योपितोड जुकम्। न वीच्यं मेधुनपरं पाराएमानं च तैर्धिया ॥ १९モ $\|$ न स्पृश्यो नेच्बोीयश्य नारीवेषधरः पुमान् । न कार्य स्त्री: समुद्दिश्य भगवद्नुएकीर्त्तनम ॥१९८॥ ब्रह्मचर्यव्रतत्यागपरं वाक्यं गुरोरपि। तैर्न मान्यं सदा स्थेयं धीरेसुप्टेर मानिभिः ॥ १न०॥ खातिनिकध्यमायान्ती प्रसभं वनिता तु या। निवार एोया साडS भाथ्य तिर सृत्यापि वा द्रुतम् ॥ १द्१॥ प्राएापद्युपपन्नायां स्त्री सां स्खेषां च वा द्वचित्। तदा स्पृद्धापि तद्रच्चा कार्या सम्भाण्य ताय्य वा ॥ १द२॥ तैलाभ्यड्नो न कर्त्तवो न धार्य चायुधं तथा। वेषो न विक्रतो धार्यों जेतव्या रसना च तैः॥ १Г३॥ परिवेषएकार्चो स्सादन स्त्रो विप्रवेश्मनि।
न गम्यं तन भिच्चार्थ गन्तव्यमितरन तु ॥ १г४ ॥ उ्रभ्यासो वेद्शास्त्वाएां कार्यस्य गु हुसेवनम्।
वर्ज्यः स्त्री एमिव स्त्रिएपुंसां सङ्गय्य तैः सदा ॥ १६्५॥
चर्मवारि न वे पेयं जात्या विप्रेया केनचित्।
पलाएडुल गुनाद्यं च तेन भच्यं न सर्वथा॥ १च्छ॥
सानं सन्धां च गायनीजपं श्रीविप्लुपूजनम्।
अ्रह्रता वैप्वद्वेवं च कर्त्तय्यं नेव भोजनम् ॥ १प्७ ॥

साधवो येऽथ तैः सर्वै जैंमिकव्रह्मचारिवत्।
स्तीस्त्वैएसड़ादि वर्ज्य जेतब्यास्चान्तरारयः॥ १म्द॥
सर्वेन्द्रियाणए जैयानि रसना तु विशेषतः।
न द्रव्यसङ्रहः कार्यः कार एीयो न केनचित् ॥ १द्ट॥
न्यासो रच्यो न कस्सापप धैर्य व्याज्यं न कfहिंचित्।
न प्रवेर्शयितब्या च सावासे स्त्रो कदाचन॥ १९०॥
न च सढ्धं विना रानौं चलितन्यमनापद्य।
एकाकिभिर्न गन्त्यं तथा द्वापि विनापद्य ॥१ल१॥
च्रनर्घ्य चिनितं वासः कुसुभ्भाब्येश्य रजितम्।
न धार्य च महावस्त्रं प्राप्तमन्येक्कयापि तत्॥ ॥९२॥
भिजों सभां विना नैव गन्तव्यं गृहिएो गृहम्ं।
व्यर्थ: कालो न नेतव्यो भात्तां भगवतो विना॥ १८३॥
पुमानेव भवेद्यन पद्वान्नपरिवेषएए।।
ईेन्नएादि भवेन्नेव यन स्त्रीएां च सर्वथा॥ १९४ ॥
तन गृहिगृहे भोकुं गन्त्व्यं साधुभिर्मम।
न्र्नन्यथाSS मान्नर्थित्वा पाकः कार्य: स्वयं च तैः ॥ १९५ ॥
ञर्षर्षभो भरतः पूर्व जडविप्रो यथा भुवि।
अ्रवर्त्ततान पर महेंसेवृत्यं तथेव तैः ॥ १९६॥
वर्शाभिः साधुभिस्चित्वर्जननीयं प्रयन्नतः।
ताम्बूलस्सार्हिफेनस्य तमालादेग्च भन्तएम ॥ १९७॥
संस्कारेषु न भोत्तव्यं गर्भाधानमुखेषु तैः।
प्रेतश्राज्चेषु सर्वैषु श्राच्चे च द्वाद्शाहिक ॥ ॥एГ॥
दिवासापो न कर्त्तव्यो रोगाद्यापद्मन्तरा।
ग्राम्यवार्त्ता न कार्या च न ग्रव्या बुध्घिपूर्वकं॥ १९८॥
सघं न तैग्य खट्वायां विना रोगादिमापद्म ।
निए्क्क्न वर्गितब्यं च साधूनामग्रतः सदा॥ २००॥

गालिदानं ताडनं च क्रतं कुमतिभिर्जनेः।
चन्तव्यमेव सर्वैषां चिन्तनीयं हितं च तै: ॥ २०१ ॥ दूतकर्म न कर्त्यव्य पैशन चारवर्म च।
देहेऽहन्ता च ममता न कार्या स्वजनादिपु॥ २०२॥
दूति सङ्द्रेपतो धर्मा: सवैषषं लिखिता मया।
साम्म्रदायिकग्नन्थेम्यो ज्ञेय एपां तु विस्तर:॥ २०३ ॥
सच्छास्त्राएां समुद्यृत्य सवेंषां सारमात्मना।
पनीयं लिखिता नुएामभीष्टफलद्वायिनी॥ २०४ ॥
इमामेव ततो नित्यम नुसृत्य ममाभ्रितैः।
यतार्ममभर्वर्त्तत्वंयं न तु स्वेर कद्वाचन॥ २०५॥
वर्त्तिप्यन्ते य दूत्यं हि पुरूपा योषितस्तथा।
ते धर्मादि चतुर्वर्गसिच्चं प्राप्स्यन्ति निश्चितम् ॥ २०६॥
नेत्यं य अाचरिप्यन्ति ते त्वस्मत्सम्प्रद्।यतः।
बहिर्मूता दूति ज्ञेयं स्त्रोपुसस: साम्प्रदायकेः ॥ २०৩॥
शिचापन्या: प्रतिदिनं पाठो sस्या मदुपाश्रितैः।
कर्त्तव्योड नच्चर्शेस्तु श्रव ांं कार्यमाद्रात्॥ २०६॥
वत्राभावे तु पूजेव कार्याडस्सा: प्रतिवासरम्।
मद्रूपमिfत मद्वाएी मान्येयं परमादरात् ॥ २०e॥
युकाय सम्पदा दैव्या दातब्येयं तु पचिका।
न्रासुर्या सम्पद्वायाय पुंसे देया न कर्हिचित्॥ २१०॥
विक्रमार्क शूकस्या sब्दे ने चाष्टवसुरूमूते।
वसन्ताद्यदिने शिचापनोयं लिखिता शुभा॥ २११॥

> निजाप्रितानाँ सकलार्त्रहन्ता सधर्मभत्तेर वनं ववधाता।
> दाता सुखानां म नर्सेप्सतानां तनोतु क्ृष्णो s खिलमङ्गलं नः ॥ २१२॥

॥ द्वतश्रीसहजान न्द्सार्मिर्लिखता शिचापचो समाप्ता॥

## Translation of the foregoing Śskshà-Patrī.

## By Professor Monier Williams.

[In making the following translation I have been careful to study the Sanskrit commentary called Artha-dipika, written for me in clear beautiful characters by Paṇit Śatānanda-muni (one of the disciples of Svāmi-Nārāyaṇa), by order of the Wartāl Mahārāja, after one of the formal visits to the Wartāl Temple, which were kindly arranged for me by Mr. Frederick Sheppard, C.S., late Collector of Kaira, and now Commissioner. The translation is the first ever made by any European scholar, though it is right I should mention that I have consulted a fairly accurate version (not always perfect either in its renderings or its English) written by Sheṭh Bhogilāl Prānjivandās, of the Bombay Education Society's Institution, Ahmedabad, and given in Mr. H. C. Briggs' work, "The Cities of Gujarāshṭra." I have also received assistance from my friend Paṇitit Shyāmaji Krishṇa-varmā, of Balliol College, Oxford.]

1. I meditate in my heart on that Krishṇa on whose left side is seated Rādhā, on whose breast reclines Śrī (Lakshmī), and who enjoyed sport (with them) in Vrindāvana.
2. I, Sahajānandaḥ Svāmī (afterwards called Svāmi-Nārīyanaa), living at Vrittālaya, write this Letter of instructions (or Book of directions) to all my followers sattered throughout various countries.
3. Let the two youths named Ayodhyī-prasīda and Raghu-vīra, the sons of my two brothers, Räma-pratāpa and Íćchā-rāma, who werc the children of Dharma (or Hariprasīda);
4. And let those Naishṭhika Brahmaciãris (that is to say, those Brahmans who continue Brahma-ciaris or celibates all
their lives), the chief among whom is Mukundinnanda, and those Grihasthas (householders), such as Mayäriana-Bhatta, and other of my followers;
5. And let those women, whether wives or widows, who have become my disciples, and the whole number of holy men (Sādhus), such as Muktīnanda and others;
6. Let all these (persons) constantly give heed to my prayers for their perpetual continuance in their own proper duties-(my prayers) offered up with repctition of the name Krishṇa (Närīyana), and in accordance with the sacred scriptures. (Literally-Let my benedictory words which keep them in their own duties be always read by all thesc persons accompanied by repetition of the name of Krishṇa, and approved by the Sistras.)
7. Let this Letter of directions, which has important objects (to be hereafter enumcrated), and which promotes the welfare of all living beings, be studied with perfect concentration of mind by all these (persons).
8. Those (virtuous) persons who conform to the good usages enjoined by the sacred Śsistras will always enjoy great happiness both in this world and in that which is to come.
9. But those evil-minded persons who wilfully transgress such (good usages) will certainly suffer great misery in this world as well as in the next.
10. Therefore let all of you who are my disciples alwars remain careful and well-contented in the observance of this (Book of directions).
11. Let no followers of mine ever intentionally kill any living thing whatever-not even a louse, flea, or the most minute insect.
12. The killing of any animal such as a goat, etc., for the purpose of sacrificing to the Gods and Pitris, must not be practised ; because it is declared, that abstinence from injury to others is the highest of all duties.
13. The killing of any human being in any way, at any place, for any object, (eren) for the sake of acquiring a wife, wealth, or political supremacy, is wholly prohibited.
14. Suicide at a sacred place of pilgrimage, or from passion, either by hanging, or by poison in consequence of the commission of a criminal act, ${ }^{1}$ is prohibited.
15. Flesh meat should never be eaten, not even that which remains of a sacrifice. Spirituous liquor of any kind should never be drunk, not even that presented to the Gods.
16. If an unlawful act has been committed anywhere by one's self or any other person, no member either of one's own or any other person's body should be on that account mutilated with a weapon of any kind through anger.
17. All theft is prohibited, even that which is committed under pretence of contributing to religious purposes; nor must such things as wood and flowers that have an owner ever be abstracted without his permission.
18. Let no male or female followers of mine ever commit adultery. Let them shun gaming and similar vices, and abstain from all intoxicating liquors and substances such as hemp, etc.
19. Nowhere-exceptin Jagannātha-purī-let a man accept water or food which has been cooked by one from whom food is not to be taken (i.e. from a person of low caste), even though that food may have formed the Prasāda ${ }^{2}$ of Krishụa (that is, the remains of what has been presented as an offering to Krishṇa).
20. No calumnious language must be used against any one for the sake of promoting one's own interests. No abusive words must ever be spoken.
21. Never use nor listen to profane language against the Gods, sacred places, Brāhmans, holy women, Sädhus and the Vedas.
22. The remains of the offering to that Goddess to whom flesh and liquor are offered and in whose presence the killing of goats, etc., takes place, are not to be eaten.

[^250]23. If you happen on the road to sce before you a temple of Siva or any other God, having first made a salutation, respectfully enter inside to view the imagc.
24. Let no one abandon the duties of the class and order to which he belongs, nor practise the religious duties of others; nor have anything to do with those propounded by heretical teachers.

2j. The narrative of the exploits of the Lord Krishña should not bc heard from the mouth of any person whose words lead one to fall from his worship or from duty.
26. Never tell a truth which is likely to cause serious injury to yoursclf or to any one else. Avoid associating with ungrateful persons. Never accept a bribe from any person whatever.
27. Never associate with thieves, wicked or ricious persons, heretics, people who are in love, and people who are engaged in dishonest occupations.
28. Never associate with those who, through eager desirc to obtain a wife, wealth or some sensual gratification, practise sinful acts under pretest of derotion to religion or to sacred knowledge.
29. Never pay attention to those books in which Kṛishṇa and his incarnations are impugned by controversial arguments.
30. No unstrained water or milk should be drunk, nor should water containing minute insects be used for such purposes as bathing, etc.
31. Never take medicine which is mixed with spirituous liquor or fiesh meat; or which has been prescribed by a physician whose character is unknown.
32. Never allow bodily excretions or eracuations or salira to fall in places probibited by the Sāstras or by public custom.
33. Never enter or leare (a house) by a side entrance (or prirate door) ; never take up your residence at a place belonging to another person, without asking the owner's permission.
34. Males ought not to listen to (discourses on) religious
knowledge, or to tales (about the exploits of heroes) from the mouths of women, ${ }^{1}$ nor ought they to carry on controversial discussions with females; nor with a king or his officials.
35. Never speak disrespectfully of religious preceptors, of superiors, of those who have gained renown in the world, of learned men, and of those that carry arms.
36. Never do any act rashly; nor be slow in a religious duty. Impart to others the knowledge you may receive, and daily associate with holy men.
37. Do not go empty-handed to pay a visit to a religious preceptor, a god or a king. Never betray a trust or violate confidence. Never praise yourself with your own lips.
38. The clothing of my followers should not be of such an improper kind that, when put on, the limbs are exposed to view.
39. The worship of Krishṇa must not be performed without attending to religious duties. Adoration of Krishṇa should not be abandoned through fear of the reproaches of ignorant people.
40. On religious festivals and on ordinary days, the inales and females that go to Krishṇa's temple should keep separate and not touch each other.
41. Those twice-born persons who have received initiation into the worship of Krishṇa from a duly qualified religious teacher should always wear on their necks two rosaries made of Tulsī wood (onc for Rādhā and another for Krishṇa), and should make an upright mark on their foreheads.
42. This mark should be made with Gopī-ćandana (i.e. white earth from Dvärik $\bar{a}$ ), or with sandal which is left from that employed in the worship of Hari (Krishna), and mixed with saffron.
43. Within this (erect mark) there ought to be made a round (vritta) mark with the matcrials (or cartli) uscd for the Pu!̣dra, or with saffron which has scrved for the

[^251]Prasīda of Rādhā and Krishụa (that is, with a portion left from that employed in their worship).
44. Those pure Sindras who are worshippers of Krishṇa, while practising their own peeuliar duties, should, like the twiee-born, use a rosary and a vertieal mark on the forehead.
40. By those (Sidra) worshippers who are different from the pure Ślidras two rosaries made of sandal wood, etc., are to be worn on the throat, and only a round mark is to be made on the forehead.
46. Those twice-born of my followers, who have inlerited from their forefathers the eustom of using a rosary of Rudraiksha berries (sacred to Siva), and the three horizontal (Saiva) marks, should not diseontinue that praetiee.
47. Närayaụa and Siva should be equally regarded as manifestations of one and the same Universal Spirit, since both have been deelared in the Vedas to be forms of Brahmă. ${ }^{1}$
48. In times of slight distress my adherents shall not ehiefly (or by preferenee) follow the laws whieh are laid down by the Sāstras for times of (excessive) distress.
49. Every day let every man awake before sumrise, and after ealling on the name of Krishṇa, proceed to the rites of bodily purifieation.
50. Having seated himself in some place apart, let him eleanse his teeth, and then, having bathed with pure water, put on two well-washed garments (an under and an upper).
51. Then having seated himself on a elean and single (asaṃkirna) seat plaeed on ground purified (with eow-dung, etc.), let a man sip water with his faee either to the east or north.
52. My male followers should then make the vertieal mark with the round spot in it on their foreheads, and wives should only make a eircular mark with red powder (of saffron).
53. A widow is prohibited from making either a vertical

[^252]or round mark on her forehead. In the next place all my followers ought to engage in the mental worship of Krishṇa.
54. After engaging in mental worship, let them bow down before the pietures of Rādh $\overline{\mathbf{a}}$ and Krishṇa, and repeat the eight-syllabled prayer to Krishṇa (that is-the formula meaning 'Krishṇa is my refuge ') as many times as possible. After that they may apply themselves to their secular affairs.
55. All my ordinary diseiples should perform the preeeding rules; but those who like Ambarisha have dedieated their whole souls (to the Deity) should be most particular in performing the duties ending with mental worship in the order enumerated (in the preeeding six verses as well as the following) :-
56. (Such devoted persons) should also then worship an image made of either stone or metal, and the blaek stone called Śsala-grāma (representing Vishṇu), with the (sixteen) offerings (of sandal, etc.), sueh as are procurable, and the eight-syllabled mantra of Krishṇa should be repeated (manu $=$ mantra).
57. Next (in order to the performanee of brahma-yajina) the hymn celebrating the praises of Krishṇa should be reeited aeeording to ability, and those that have not studied Sanskrit should at least repeat his name.
58. All who have devoted themselves (in this way) to the worship of Krishṇa, should next present an offering (of eooked food) to him, and then they should eat the remains of the offering (prāsädikam). They should at all times be full of joy.
59. Sinee they are ealled the passionless (nirguma) worshippers of the passionless Kṛishna, therefore, in consequenee of that, all their aets are also (called) passionless (nirguṇa).
60. By these devoted (worshippers) indeed no water should be drunk, nor should any leaves, roots or fruits anywhere be caten whieh have not been presented to Kṛishṇa.
61. All those who from old age or some grievous ealamity are unable (to perform worship) should make over the (imare
or Sala-grāma stone) of Krishṇa to the eharge of some other devotee (able to earry on the proper serviees), and should themselves aet to the best of their ability.
62. An image (or Śàla-grāma) of Kṛishụa, given by a religious leader (aćärya), or conseerated by him, should be worshipped, but to other images it is suffieient to make obeisanee.
63. Every day all my followers should go to the temple of God in the evening, and there loudly repeat the names of the lord of Rādhikà.

64 . The story of his exploits should be related as well as heard with the greatest reverenee, and on festivals hymns in praise of Kṛishṇa should be sung aceompanied by musical instruments.
65. In this manner all my followers should every day perform religious duties. Moreover, they should study works both in Sanskrit and in the popular dialeets, according to their mental abilities.
66. Whatever individual is appointed to any offiee, he should be so appointed with striet regard to his qualifications, after due eonsideration, and never in any other way.
67. Let every one always provide his own servants with food and elothing in the most suitable manner, and aceording to his own peeuniary means.
68. In eonversation every person should be addressed eonformably to his eharacter (or qualities), and suitably to time and place, and not in any other manner.
$6 \%$ By all well-eondueted persons due deference must be shown to a religious guide, a king, an elder, an aseetie, a learned man, and one that practises austerities, by rising from the seat and so forth.
70. No man should sit down on the ground in the presence of a religious preceptor, a god, or king, or in a (solemn) assembly, in sueh a (disrespectful) attitude as to make one foot rest on the thigh, or with a cloth tied round the (waist and) knees.
71. A eontroversial discussion should never be earried on with a religious teacher ( $\left.\bar{a}^{c} \bar{a} r^{r} y a\right)$. He is to be honoured
with gifts of food, money, clothes, and with all other things according to ability.
72. When any of my disciples hear of his arrival, they should immediately show their respect by advancing to meet him, and when he departs, they should accompany him as far as the confines of the village.
73. If an act, attended with large recompense, be opposed to religious duty, that act ought not to be committed; for religious duty (when performed) confers all desired objects.
74. An unrighteous act that may have been committed by great persons in former times must never be held (worthy of imitation) ; but their virtuous conduct only is to be imitated.
75. Let not the secrets of any one be ever anywhere divulged, the neglect (vyatikrama) of proper respect (for those deserving of reverence) should never be made, (as if all were to be looked at) with an equal eye (of esteem).
76. All my disciples should practise special religious observances during the four special months (beginning with Āshādha). But those who are sickly need only practise the same in the one month of Śāvaṇa only.
77. Reading and listening to the exploits of Vishụu, singing his praises, solemn worship, repetition of his mantra ("Great Kṛishṇa is my refuge "), recitation of the hymn of praise (i.e. of the thousand names of Vishṇu), reverential circumambulations (from left to right with the right side towards the object adored),
78. Prostration with the eight members (of the body)these are considered the best religious observances; any one of these ought to be performed with special devotion.
79. The fasts of all the eleventh days (of the waxing and waning moon) should be carefully observed; also of the birthdays of Krishṇa; and of the night of Siva (Śiva-rätri) with rejoicings during the day.
80. On a fast-day slecping by day should most carefully be avoided, since by such sleep the merit of fasting is lost to men, quite as much as by sexual intercourse.
81. Whatever appointed order of religious fasts and festivals (vrata and utsava) was enjoined by Śrì Viṭhṭhaleśa
(Viththala-nātha), who was the son of Śrī Vallabhaciérya, the most cminent of Vaishṇavas.
82. Having conformed to that order, all religious fasts and festivals should bo observed accordingly; and the form of worshipping Kṛishụa dirceted by him (Viţhṭhaleśa) should be adopted.
83. A pilgrimage to the Tirthas, or holy places, of which Drarik̄̄̄ (Kirishua's city in Gujarāt) is the chief, should be performed according to rule. Love and Charity should be shown towards tho poor by all, according to ability.
84. Vishụu, Siva, Gaṇa-pati (Gaṇésa), Pārvatī, and the Sun, these five deities should be honoured with worship by my followers. ${ }^{1}$
85. When at any place a calamity is caused by a demon or by any similar cause, the charm called Nārīyaṇa should be recited or the mantra of Hanumān should be muttered, but not the mantra of any inferior god less csteemed.
86. On the occurrence of eclipses of the sun and moon, all my followers should immediately suspend their other business, and, having purified themsclves, should make repetition of the (eight-syllabled) mantra of Krishṇa.
87. When the cclipse has passed off, they should bathe with their clothes on, and those who are householders should distribute gifts according to their ability. Other persons (who have no worldly means) should engage in the worship of the supreme Lord (Vishṇu).
88. Those followers of mine who belong to the four classes should observe, in conformity with the Siastras, the rules in regard to the contraction of impurity through births and deaths, according to the degree of kinship.
89. Brähmans should possess tranquillity of mind, selfrestraint, forbearance, contentment and similar virtues. Kshatriyas (or the soldier caste) should be remarkable for bravery, fortitude, and the like qualities.

[^253]90. Vaisyas (or the agricultural and commercial caste) should occupy themselves in mercantile pursuits, moneylending, and the like. Śūdras (or the servile class) should be employed in serving the twice-born, etc.
91. The twice-born should perform at the proper seasons, and according to their means-each according to his own domestic rules-the twelve purificatory rites ${ }^{1}$ (sansiāra), the (six) daily duties, ${ }^{2}$ and the Srāddha offerings to the spirits of departed ancestors.
92. If intentionally or unintentionally any sin, great or small, be committed, the proper penance must be performed according to ability.
93. The Vedas, the Vedānta-sūtras of Vyāsa, the Bhäga-vata-puraña and the thousand names of Vishṇu in the Mahābhārata,
94. The Bhagavad-gita and the precepts of Vidura, the Vāsudeva-māhātmya from the Vaishṇava-khaṇda of the Skanda-Purāṇa,
95. And the Smriti of Yājinavalkya, which is one of the Dharma-Śistras, these eight sacred books are approved by me as authorities. ${ }^{3}$
96. All my twice-born disciples who wish good to themselves should recite these sacred books and hear them recited.
97. In deciding questions of ancient usage (àćāra), or practice, or penance, the code of Yäjnavalkya, with its commentary the Mitūksharā, should be taken (as the best authority).
98. The tenth and fifth books of the Bhāgavata Purāṇa are to be regarded as having the preeminence over all the

[^254]other sacred books for the understanding of the glory of Krishụa.
99. The tenth and fifth books of the Bhägavata Puriṇa and the code of Yijjinaalkya are respectively my I3haktiśistra (manual of faith), Yoga-siastra (manual of devotion), and Dharma-śāstra (manual of lisw).
100. As a treatise on the soul, the commentary on the Bhagavad-Gītī as well as that on the Śariraka-Sītras of Y yīsa, made by Rāmānujácienya, commends itself to my approval.
101. Whatever preeepts in these saered books have for their subject the excessive exaltation of Krishua and of Justice (Vrisha), of faith and of indifferenee to the world-
102. Such precepts should be regarded as taking precedence over all others. Their essential doctrine is that devotion to Kṛishụa should be joined with the performance of duty.
103. Duty (dharma) is that good practice which is enjoined both by the Veda (Sruti) and by the law (Smṛiti) founded on the Veda. Devotion (blakti) is intense love for Krishṇa, aceompanied with a due sense of his glory.
104. Indifference to worldly objects means absence of satisfaction in any object except Kṛishụa. True knowledge consists in discriminating rightly between the nature of the personal soul (jiva), of the external world (Māyā), and of the Supreme Being (II'sa).
105. The personal soul dwells in the heart. It is as subtle as an atom ; it is all thought; it has the faculty of knowledge; it is ascertained to be constantly pervading the whole body (i.e. the three corporeal envelopes kīraṇa, sūkshma, and sthüla) by its power of perception; it is characterized by indivisibility and the like.
106. The external world (Māyā) is identical with the energizing power of Krishṇa. It is composed of the three Guṇas ; it is darkness; it is to be understood as the cause of the soul's having such ideas in regard to the body, and the things relating to the body, as are conveyed by the expressions I, mine, and the like.
107. He who abides in the living personal soul in the
character of an internal monitor, as the personal soul dwells in the heart, he is to be considered as the Self-existent Supreme Being, the Rewarder of all actions.
108. That Being, known by various names-such as the glorious Krishṇa, Param Brahma, Bhagavān, Purushottamaḥ -the cause of all manifestations, is to be adored by us as our one chosen deity.
109. $\Pi e$, together with Rādhā, should be regarded as the Supreme Lord, under the name of Rādhā-Krishṇa. With Rukmiṇī and Ramā he is known as Lakshmī-Nārāyaṇa.
110. When joined with Arjuna, he is known by the name of Nara-Nārāyaṇa; when associated with Bala-bhadra (=Balaräma), or any other divine personage, he is called RāmaKrishṇa and so on.
111. Those devoted (female companions of the god) Rādhā and his other (consorts) are in some places represented at his side. In other places (their images do not appear, because) they are supposed to be one with his body and he with theirs.
112. On no account let it be supposed that difference in forms makes any difference in the identity of the deity. For the two-armed Krishṇa may exhibit himself with four arms (or eight, or a thousand, or any number of arms).
113. Towards him alone ought all faith and worship (bhakti) to be directed by every human being on earth in every possible manner. Nothing else, except such (faith), is able to procure salvation.
114. The best result of the virtues of those who possess good qualities is faith in Krishṇa and association with holy men ; without these, even persons who know (the Sastras) go downwards (towards a lower state).
115. Meditation should be directed towards Krishṇa, his incarnations and their images, but not towards living men, nor (inferior) gods, etc., nor devotees, nor (even) those who (merely) have knowledge of Brahmă.
116. Having perecived, by abstract meditation, that the Spirit or Self is distinct from its threc bodics (viz. the gross, subtlo and causal bodies), and that it is a portion of the one

Spirit of the Unicerse (Brahmă), cvery man ought to worship Krishṇa by means of that (sclf) at all times.

11\%. The tenth book of the Bhàgavata-Puranna should be listened to reverentially, and learned men should read it daily or (if frequent reading is impossible, at least) once a year.
118. The repetition (of the Bhāgavata), as well as of the thousand names of Vishụu, etc., should be performed as far as possible in a pure place (such as the precincts of a tomple); for (such repetition) causes the accomplishment of desired objects.
119. On the occurrence of any disaster caused by the elements (such as a flood or firc), or when any human calamity or sickness takes place, a man should be wholly occupied in striving to preserve himself and other people and in nothing clsc.
120. Religious usages, business transactions and penances, should be adapted to country, time, age, property, rank and ability.
121. The (philosophical) doctrine approved by me is the Viśishṭādvaita (of Rāmānuja), ${ }^{1}$ and the desired heavenly abode is Goloka. There to worship Krishṇa, and be united with him as the Supreme Soul of the Universe, is to be considered salvation (Mukti).
122. These that hare been specified are the general duties, applicable to all my followers, whether male or female. Now I am about to enumerate the special duties.
123. The two sons of my elder and younger brothers (viz. Ayodhyā-prasīda and Raghu-vira) ought never to impart instruction to any women except their nearest relations.
124. They ought never to touch or converse with any women in any place whaterer. Cruelty should never be shown towards any person. A deposit belonging to another should never be taken charge of.
125. In business matters no one should stand security for

[^255]any other person. In passing through a time of distress it is right to ask for alms, but debts should not be contracted.
126. One should not sell corn bestowed by one's own disciples; having given away old corn, new corn is to be bought. That is not called a sale.
127. On the fourth day of the light-half of the month Bhādra, the worship of Gaṇeśa should be performed, and on the fourteenth of the dark-half of Àsina, Hauumān should be worshipped.
128. Those two sons (of my brothers, viz. Ayodhyāprasäda and Raghu-vīra), who have been appointed as spiritual guides to guard the religious interests of my followers, should initiate all desirous of obtaining salvation (in the use of the mantra of Krishṇa).
129. They should cause each of their disciples to continue steadfast in his own appointed duty. Honour should be paid to holy men, and the sacred Sāstras should be reverently repeated.
130. Worship of Lakshmī-Nārāyana, and other forms of Frishṇa that have been set up and consecrated by me in the great temples, should be performed with the proper ceremonies.
131. Any one who may come to the temple of Krishṇa to ask for a gift of food (cooked or uncooked) should be received with respect, and food given to him according to ability.
132. Haring established a school for giving instruction, some learned Brāhman should be appointed over it. True knowledge should be promoted throughout the world, for that is an act of great merit.
133. The two wives of these (sons of my brothers), with the permission of their respective husbands, should initiate females only (eva) in the Mantra of Krishna.
134. They should never touch or speak to other males than their nearest relations; nor should they crer show their faces to them.
135. My male followers who are houscholders should never touch widows unless they are their own near relatives.
136. They should not remain alone in any private place with a youthful mother, sister or daughter, exeept in a time of distress. Nor should a wife be given a way (to another man).
137. No attachment should on any account be formed with a woman who in any transaetions has been brought into connexion with the king of the country.
138. When a guest has arrived at a house, he should be honoured by those (who live in it) with food and other things aceording to ability. Offerings to the Gods and the Pitris (at the Devatã-tarpaụa and Pitṛi-tarpaụa and Śräddha eeremonies) slould be made aceording to right usage and aecording to one's means.
139. It is the duty of my diseiples, as long as they live and aceording to their ability, to honour with faithful attention their father, mother, spiritual preceptor, and any one afflieted with sickness.
140. Every person should, aeeording to his ability, carry on some oceupation suitable to his easte and religions order. Those that live by agrieulture should not allow a bull to be gelded.
141. Provisions and money should be laid by aecording to eireumstanees and time; and those that keep cattle should store up as much hay as these animals may need for their consumption.
142. If a man can himself attend to the proper feeding of cows and other animals with hay and water, then only he may keep them, otherwise he must not do so.
143. No business in regard to giving or receiving land or property should ever be transacted even with a son or friend, without a written deed attested by witnesses.
144. When any pecuniary transactions conneeted with giving away a girl in marriage have to be transacted for one's self or another person, the money to be delivered over should not be settled by verbal agreement, but only by a written contraet attested by witnesses.
145. A man's expenditure ought always to be in proportion to his income. Otherwise it is certain that great misery will arise.
146. Every day one should take note of one's income and expenditure in the regular business of life, and write them down with one's own hand.
147. My followers should assign a tithe of the grain, money, etc., acquired by their own occupation or exertions to Krishṇa, and the poor should give a twentieth part.
148. The due performance of fasts, of which the eleventhday fasts are the principal, should be effected according to the S'àstras and one's ability ; for this will lead to the attainment of desired objects.
149. Every year in the month Śrāvaṇa one should perform, or cause others to perform, cheerfully the worship of Śiva with the leaves of the Bilva-tree, etc.
150. Neither money, nor utensils, nor ornaments, nor clothes should be borrowed for use (on festive occasions) from one's own spiritual preceptor, or from the temple of Kṛishṇa.
151. Whilc going to do homage to great Krishṇa, to a spiritual preceptor, or to a holy man, food should not be accepted from others on the road, or at the places of pilgrimage ; for such food takes a way religious merit.
152. The full amount of promised wages should be paid to a workman. Payment of a debt is never to be kept secret. Let no one have any dealings with wicked men.
153. If through great distress caused by a famine, by enemies, or by (the oppression of) a king, any danger of destruction arises anywhere to character, wealth or life,
154. The wise among my followers should at once quit even their own native country, and having gonc to allother, let them reside there happily.
155. Wealthy houscholders should perform those sacrifices in honour of Vishṇu which entail no killing of animals. Brīhnnans and holy men (Sädhus) should be fed on festival days at sacred places of pilgrimage.
156. They should observe the great festivals in honour of the Deity in the temples, and should distribute various gifts among Brāhmans who are deserving objects (of generosity).
157. Kings who aro my followers should govern all their
subjeets in aceordaneo with tho law (laid down in the Dharma-sistras), and should proteet them as if they were their children, and should establish the observaneo of proper duties throughout the whole land.
158. They should bo well aequainted with the eireumstances of their kingdom; as, for example, with the seven Angas (vi\%. the duties of the sovereign, minister, ally, treasury, territory, fortresses and army) ; the four Upayas (riz. conciliation, sowing dissension, bribing, and punishing) ; the six Gullas (viz. peace, war, marching, sitting eneamped, dividing the forces, having recourse to an ally for protection); and the places of resort to which spies should be sent. They should also make themselves aequainted with the inen who are skilled in legal procedure, and with all the court functionaries, observing by the right signs whether any ought to be punished or not. ${ }^{1}$
159. Wives should honour their husbands as if they were gods, and never offend them with improper language, though they be diseased, indigent, or imbeeile. ${ }^{2}$
160. No communieation, even though arising naturally (sīhajika), should be held with any other man who may be possessed of beauty, youth and good qualities.
161. A chaste woman should not allow her navel, thighs, or breasts to be seen by males; nor should she remain without an upper garment (anuttariya ), nor should she look at (the antics of) buffoons, nor associate with an immodest woman.
162. A wife while her husband is absent in a foreign country should wear neither ornaments nor fine clothes; she ought not to frequent other people's houses, and should abstain from laughing and talking with other women.
163. Widows should serve the God Kṛishṇa with minds intent on him as their only husband; they should live under the control of their father, or other male members of the family, and never in independence.

[^256]164. They must never at any time touch any men except their nearest relations, and when young they should never without necessity engage in conversation with youthful men.
165. If an infant male-child touch them, no blame attaehes to them, any more than from contact with a dumb animal ; nor if they are compclled from necessity to talk with or touch an old man.
166. Instruction in any science should not be received by them from any man except from their nearest relations. They should frequently emaciate their bodies by vows and fasts.
167. They should never give away to others the money which is required for their own support. That only must be given away which they have in excess.
168. They should eat only one meal a day, and should sleep on the ground; they should never look at (animals) engaged in sexual aets.
169. They must never wear the dress of a married woman, nor of a female asectic, nor of a mendicant, nor any unbecoming attire.
170. They should neither associate with nor touch a woman who has been guilty of procuring abortion; nor should they either converse about, or hear stories of the loves of the male sex.
171. Except in times of distress widows who are young should never remain alone in secret places along with men, even with their own rclatives, if youthful.
172. They should never join in the frolics practised at the Holi festival, nor should they put on ornaments or finely woven clothes composed of cotton or metal threads.
173. Neither wives nor widows ought ever to bathe without wearing clothes. No woman should ever conceal the first appearance of her monthly periods.
174. A woman at that season should not for an interval of thrce days touch any human being, clothes, etc. ; nor ought she to do so till she has bathed on the fourth day.
175. Those of my followers who have taken the vow of
of Naishṭhika Brahmaćāris (that is, of perpctual celibacy and chastity) must not knowingly either touch or converse with, or look at women.
176. They should never talk or listen to conversations about women, and they should not perform their ablutions or other religious rites at places where women pass backwards and forwards.
177. They should never knowingly touch or look at even the pictures or wooden images of women, unless they be the representations of goddesses.
178. They should neither draw any likeness of a woman, nor touch her clothes. They inust never knowingly look even at animals engaged in sexual acts.
179. They should neither touch nor look at a male dressed up as a woman; nor should they sing the praises of the Deity with a view to being heard by women.
180. They should pay no attention to the command of even their spiritual preceptor if likely to lead them to a breach of their row of chastity. They should continue steadfast, contented, and humble-minded.
181. When a woman insists on forcing herself near them, they should immediately try to keep her off by expostulating with her, and (if she still approaches) by reproaching her.
182. In cases where their own lives, or those of women, are in jeopardy, they may be allowed contact or conversation with women, such contact being necessary for the saving of life.
183. They should not anoint their lips with oil. They should not carry weapons. They should not dress themselves in unbecoming costume. They should subdue the sense of taste.

1St. If in the house of any Brāhman the meals are cooked and served up by a woman, they should not go there to ask for food, but should ask for it at some other house.
185. They should constantly repeat the Vedas and S'āstras, and serve their spiritual preceptor. They must shun the society of women, and of men who are fond of women.
186. He who is by birth a Brāhman should on no account
drink water from a leathern vessel ; nor should he ever eat garlic, onions, etc.
187. Nor must he eat food without having first performed his ablutions, the Sandhyā service, repetition of the Gāyatrī, the worship of Vishṇu, and the Vaiśvadeva ceremony. ${ }^{1}$
188. All who are Sādhus are bound, just like those who have made a vow of perpetual celibacy, to avoid associating with women, or with men who are fond of women, and should subdue their (six) internal enemies (lust, anger, avarice, infatuation, pride, and envy).
189. They should subjugate all the senses, more especially the sense of taste; they should neither lay by a store of property themselves, nor make others do so for them.
190. They must not take charge of any one's deposit, they should never relax their firmness, nor allow a woman to enter their abodes at any time. ${ }^{2}$
191. Except at a time of distress, they should never go anywhere by night without a companion, nor should they travel to any place singly.
192. They should not use a costly variegated cloth, or one dyed with kusumbha, or dyed in any other way; or any expensive cloth, though freely presented to them by another.
193. They should not go to the houses of householders unless for the purpose of asking alms, or for being present at an assembly. They should not spend time uselessly without devoting any of it to the worship of the Deity.
194. To the abode of a householder in which only males are employed for serving up the cooked food, and where no woman is to be seen-
195. To the house of such a householder only should my Sādhus resort for participation in a meal, otherwise they should ask for uncooked food, and prepare it themselves.
196. All my holiest sages should conduct themselves in

[^257]the same manner as Bharata, son of Rishabha, the idint Brähman (Jaça-vipra), did in ancient times. ${ }^{1}$
197. Those holy men (Sādhus) who are Brahmaćārīs should diligently abstain from eating or using betel-leaves, opium, tobacco (tamāla), etc.
198. They should never accept a meal given on the performance of the Sanskära ceremonies, beginning with that of conception; ${ }^{2}$ nor on performing the Śäddha ceremony at death, nor at that performed on the 12 th day after deccasc.
199. They should never slecp during the day, unlcss afflicted with sickness, ctc. They should never gossip about local matters, nor intentionally listen to such gossip.
200. They should not lie down on a bedstead except when suffering from illness or other affliction, and should be guileless and straightforward in their behaviour towards other Sädhus.
201. They should patiently bear abusive language, or even blows from evil-minded persons, and wish good to (them in return).
202. They should not undertake the work of a go-between or informer, or spy; they should never show selfishness or partiality towards their relations.
203. Thus I have specified in a summary manner the general duties of all. Those who desire more particular instructions must refer to the sacred books handed down by tradition.
204. Having myself extracted the essence of all the sacred Śsistrās, I have written this Directory, which leads men to the attainment of desired objects.
205. Hence it is incumbent on my followers, having their minds well controlled, to conduct themselves in conformity with its precepts, and not according to their own wills.
206. Those males and females of my disciples who will

[^258]act according to these directions shall certainly obtain the four great objects of human desires (viz. Dharma, religious merit; Artha, wealth; Käma, pleasure ; and Moksha, final beatitude).
207. Those who will not act according to these (directions) shall be considered by my male and female followers as excluded from communion with my sect.
208. My followers should daily read this Book of directions, and those who do not know how to read should listen to others reading it.
209. But in the absence of a reader (vaktrabhāve), worship should be paid to it every day, and it should be honoured with the greatest reverence as my word and my representative.
210. This Directory should only be given to those persons who are endowed with a nature of the divine type; never to a man possessing a nature of the demoniacal type. ${ }^{1}$
211. This Book of directions, bringing welfare (to all who study it), was completed on the first day of the season of spring in the year 1882 of the era of Vikramáditya (=A.d. 1826).
212. May Krishṇa, the remover of the sufferings of his worshippers, the maintainer of devotion, accompanied with the performance of proper duties, the bestower of the desires of the heart, grant us blessings of all kinds !

[^259]Art. XXV.-The Successors of the Seljuks in Asia Minor. By Stanley Lane-Poole.

Is preparing the eighth rolume of the Catalogue of Oriental Coins in the British Museum, which will describe the coins of the Turks, I found myself confronted at the outset with a serious obstacle in the shape of twenty-five coins of various Turkish Amírs of Asia Minor, of whose history and chronology almost nothing appeared to be known, and of whose coinage the only examples hitherto published were fire specimens (three rarieties) described by Dr. E. von Bergmann and by Prof. J. Karabacek respectively, in the "Berichte" of the Vienna Academy, and in the "Numismatische Zeitschrift." The twenty-fire examples in the British Museum had long remained unnoticed. Some I found in the 'Othmánly series; but most of them were discovered and partly identified by my uncle, the Keeper of Coins. The inscriptions were for the most part clear enough; and the difficulty consisted simply in the fact that the history of the princes who issued them was not generally known or easily accessible. The trouble and research that were necessary before I could arrange and attribute the coins and draw up approximately complete chronological lists of these dynasties and princes, are, I think, a sufficient excuse for the following pages, in which I shall try to smooth the way for my successors.

It is well known that on the breaking-up of the Seljúky kingdom of Er-Rúm, or Anatolia, ten separate dynasties divided its territories among themselves. The Karasy dynasty sprang up in Mysia; the lines of Sárú-khán and Aydiz in Ledia; of Menteshá in Caria; of Tekkeh in Lycia and Pamphylia; of Hamíd in Pisidia and Isauria; of Karamán in

Lycaonia; of Kermiyán in Phrygia; of 'Othmán in Phrygia Epictetus; and of Kizil-Ahmadly in Paphlagonia.

All these dynasties were gradually absorbed by the rising power of the 'Othmánlis, once the least among them. At the end of the eighth century of the Hijreh, not a hundred years after the assumption of independence by 'Othmán I., the arms of Báyezíd I. made a clean sweep of the nine rival dynasties. After the battle of Angora, when Báyezíd was defeated and taken prisoner by Tímúr, and the Tatar horde almost annihilated for the moment the power of the 'Othmánlis in Asia, seven of these dynasties were restored, and enjoyed a new lease of life for some twenty-five years; but in 829-32, five of them were re-absorbed by Murád II., and in 877 the 'Othmánly rule was supreme over all the provinces which oncc owned the sway of the Decarchy, or Zehnfürsten.

Between a.h. 700, when these dynasties sprang up, and A.H. 877, when the last of them succumbed to the 'Othmánlis, there is space for a good many princes, and, in the due settlement of their places and dates, there is ample room for confusion and doubt. Von Hammer's details are very insufficient ; but much allowance must be made for this industrious historian, inasmuch as the originals he relicd on are frequently to blame for his obscurity. .The Turkish annalists are not only mutually contradictory, but they have a habit of speaking of any of these dynasts as Karásy Oglu, Kermiyán Oglu, i.e. son of Karásy, of Kermiyán, etc., without mentioning the name of the descendant in question. Prof. Karabacek has had the advantage of consulting a MS. of Munejjim Bashy for his account of the history of the Aydín princes, ${ }^{1}$ and Dr. Bergmann has used the same authority, as well as the Byzantine historians, in his remarks on the family of Ṣárúkhán; ${ }^{2}$ and to the data drawn from these papers a certain degree of finality may be granted, though an element of uncertainty still remains in several details.

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I have been able to supplement these authorities by the statements of a highly-esteemed Turkish historian, Sa'd-eddín, whose work Mr. E. J. W. Gibb (whose translations of Ottoman poetry have served to introduce an almost unknown literature to English readers) has most kindly consulted for me. I have also drawn some valuable notes from Charmoy's translation of the Sharaf-Nameh (St. Petersburg, four vols., 1868-1875), and from Rasmussen's Annales Istamismi (Hauniae, 1825), a useful little volume founded on good authorities.

The results of my investigations appear in the accompanying table of the Ten Dynasties, in which their rise on the ruins of the Seljúky kingdom, and their absorption in the 'Othmánly empire, originally one of their number, is shown, together with the break of a dozen years, created by the temporary annexation of the majority of these dynasties by the 'Othmánlis in 792-5.
It will be seen that the first dynasty to succumb to the rising power of the 'Othmánlis was that of Karásy, which was annexed in A.f. 737. Next, Mamíd was purchased in 783 ; and in 792 Báyezíd I. annexed Kermiyán, Tekkeh, Ṣárú-khán, Aydín and Menteshá in a single campaign, and finished his work in 794 and 795 by the conquest of Karamán and Kizil-Aḥmadly. These last seven were restored by Tímúr in 805 , only to be again reduced by Murád II. and Mohammad II.

With regard to individual dates, it is to be regretted that those of the earlier prinees are not recorded by the historians, and as the coins are none of them earlier than the middle of the eighth century, they cannot supply this deficiency. Those dates which are underlined in my table are given on the authority of Sa’d-ed-din. Those of Ṣárú-Khán and Aydin are based upon the authority of Munejjim Bashy, etc. (apud Bergmann and Karabacek); the date 746 for Ilyás is founded upon the last mention of Ṣárú-Khán himself; but Rasmussen gives 740 for his accession. Rasmussen's date 791 for Ishák of the same line is rejected on the evidence of a
coin of 776 ; $^{1}$ whilst the 'Omar who closes the dynasty is inserted on the strength of another coin, which is, however, unhappily dateless. Von Hammer mentions an " Umurbeg (Mortassen) " lord of Ṣárú-khán in 810 (vol. i. p. 348). In Aydín, Rasmussen gives 740 for Mohammad's accession, confusing him, I fancy, with 'Omar. The latter ("Oumoûr Beg'"), according to the Sharaf Nameh, was reigning in 759. If this is correct, Karabacek's date of 749 for the accession of 'I'sá may be a mistake. On the restoration under Tímúr, Juneyd obtained Ephesus, a portion of the Aydin territory, and on the death of 'Omar in 806 he succeeded to the whole province, apparently, however, only for a short time; ${ }^{2}$ subsequently he also acquired Ṣárú-khán ; but in 814 (Sa'd-ed-dín) or 816 (Von Hammer) he was reduced to vassalage by Mohammad I., and ordered to issue his coins in his suzerain's name. That he did not do so always is shown by a very valuable coin of 825 in the British Museum, which I have had the happiness of identifying, on which Juneyd's name appears without that of the 'Othmánly Sultán. Junerd was finally defeated and killed in 829, and his dominions were annexed to the Sultán's.

The Menteshá dates are very uncertain. The first I am able to give is 791 for Ilyás, according to Rasmussen. His restoration in 805 is established by a coin in the British Museum; and another coin definitely places his son Leyth as his successor in 824 . This coin is the only authority, I believe, for the existence of Leyth. Von Hammer makes Ilyás the last prince of this line, and in an account of the fall of the Menteshá dynasty, which Mr. Gibb has kindly translated for me from Sa'd-ed-din, there is no mention of him.

This account relates that "when Menteshá Oglu Ya'kúb Beg, the hereditary possessor of the kingdom and throne,

[^261]had laid aside the borrowed garment of life, two sons of his, namely, Ilyás and Maḥmúd, remained. . . . But when Ilyás, who succeeded Mahmúd (east off the garment of life), ${ }^{1}$ his sons, Uweys and Ahmad, not content with the favours of the Heaven-supported monarch [the 'Othmánly Sultán, at whose court they were staying], felt a longing for the recovery of their hereditary kingdom, and planned and prepared for flight. On this being reported at the foot of the throne, they were imprisoned by the Imperial order in Bedevy Chár-ták; and the Sultán's servant Bálábán Pasha was named governor of Menteshá. . . . This event occurred about the beginning of the year 829. For two ycars Uweys and $\Lambda$ hemad endured the pains of imprisonment; as they were, 'like the bird in the cage,' forbidden to go forth, their woes were excessive, and their griefs extreme." At last they managed to escape in sacks of hay. "It was the season when Kara 'Othmán Báyendery, ruler of Diyár Bekr, had returned from his summer encampments, and Aḥmad sought refuge with him. But he could not stay there, and went to Egypt, after which he went to Persia, where his name is lost. Uweys Bey had no strength to flee; but, dazed and giddy in the wilderness of bewilderment, he fell into the hands of the officers of the castle. When this was announced at the Sultán's court, the decree went forth that Uweys Bey and the castellain should be concealed from sight in the dungeon of non-existence."

Although he is not mentioned in this account, the Leyth of the coin of 824 could hardly have been the son of any other Ilyás ; and the style of his coin exactly corresponds to that of his father of the year 805 . He must have ruled some time between his father's death in 824 and the appointment of Bálábán in 829 .

The British Museum coins also enable me to fix the date of 'Alá-ed-dín of Karamán at 756 at the latest, thus nearly confirming Rasmussen's figures 750 ; and a coin of Ibráhím in 829 proves that Sa'd-ed-dín and the Sharaf Nameh are both wrong in placing this prince's accession at 830. Dr. Berg-

[^262]mann gives 826 as the date of Mohammad's death. Of the accession of 'Aly (a brother of Mohammad of Karamán, set up by the contemporary Memlúk Sultán in 815, until Mohammad was restored in 824 , all according to Rasmussen), neither Sa'd-ed-din nor any other authority that I know of makes any mention. As to the end of the Karamán dynasty, Von Hammer states that Pír Ahmad succeeded Ibráhím in 1463 (868) ; but his brother Ishák ruled in Cilicia; whence he retreated to Uzun Hasan, the Turkuman. Pír Aḥad and another brother, Kásim, held out till 1473 (877); the Sharaf Nameh says till 873.

According to Prof. Karabacek, Yakhshy and others of the Ten Princes first began to strike coins in 1327 (728).

Besides coins of 'Alá-ed-dín, Mohammad, and Ibráhím, of Karamán; Ishák and 'Omar of Ṣárú-khán (and Latin issues); 'I'sá of Aydín; Juneyd; Ilyás and Leyth of Menteshá ; the British Museum possesses examples of a certain Mufettih-ed-din, a vassal of the Karamanians, apparently unknown to history ; of Mohammad Artín ; of a Beglerbeg (probably an early 'Othmánly governor), and of Ishák Páshá, who was governor of Anatolia under Murád II. and Mohammad II. (e.g. in 1432, according to Von Hammer). It is unnecessary to do more than refer to them here, as full descriptions are given in the forthcoming cighth volume of my Catalogue.

These coins add some important facts to what the historians relate. But a great deal remains to be ascertained, and private and public collections must be searched for further specimens, which may probably be hidden among the early Turkish issues. Dates are required to fill up many lacunac ; and mints are no less needed. As a guide to those who may find mint-names on these coins I may mention that the chief towns of the various dynasties, according to Von Hammer, were as follows:-Of Karamán-Larenda, Erınenak, Akseráï, A'kshchr, and Kóniych; of Kizil Ahnadly-Kastomúny, Janik, Sámsún, and Amásiyeh; of Kermiyán-Kutáhiych; of Hamíd- $\Lambda$ kshehr, Begshehr, Sídishehr, Isparta, Karagháj; of Aydín-Ismír (Smyrna) and Ayásuluk (Ephesus) ; of Ṣárú-khán-Magnesia.

The following are the dynastic lists so far as I hare been able to arrange them :-

> Karist.

| I. 'Ajlán Beg |  |  |  |  | A. H | A.D. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | -... | ... | ... | cire. | -00 | 1300 |
|  | Annesed | ... | ... | ... | ${ }^{3} 7$ | 1336 |

I. Kermiryan Beg ... ... ... eire. 700 1300

I1. Alishar Beg.
III. 'Alim Shah.
IV. Aty Beg.
V. Ia*ub Beg.

Conquered by Bárezid ... $792 \quad 1390$
Dynasty restored by Timúr.
Ya`kúb Beg restored ... ... ... $505 \quad 1402$

Havíd.
I. Falak ed-din Hamid ... ... circ. 700 1300
II. Hoseyu Beg.

Purchased ... ... ... iS3 1381
Tekeer.
I. Tekkeh Beg ... ... ... ... 700 1300
II. ?

Conquered by Básezid ... 792 1390
Dynasty restored by Timur.
III. 'Othmán ... ... ... ... ... 805 1402

Annexed ... ... ... S30 1427
Șítú-khav.
I. Sárú-tbhán... ... ... ... ... 713 1313
II. İlyás ... ... ... ... ... it6 1345

Conquered br Bárezíd $\quad . . . \quad 792 \quad 1290$
Dynasty restored by Timuir.

| IV. Khiḍr Sháh |  | ... | ... | ... | .. | S04 | 1401 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | To | ... | ... | ... |  | 805 | 1402 |
| V. 'Omar |  | ... | ... | ... |  | S09 | 1406 |
|  | To |  |  | $\ldots$ | ... | S13 | $1+10$ |
|  | Jun | $y{ }^{\text {d }}$ su | eeds | $\ldots$ | .. | 813 | 1410 |
|  | Ann | esed |  | ... |  | 829 | 1426 |

Ardís.

| I. Ardin Beg ... |  | ... | ... | ... | ... | 700 | 1300 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| II. Moḅa |  | $\ldots$ | ... | ... | ... | \%33 | 1332 |
| III. ' ${ }^{\text {Omar }}$ | ... | ... | ... | ... | ... | 740 | 1339 |
| IT. 'Isá |  | ... |  |  |  | -19 | 1345 |
|  |  | - | 5 |  | ... | 792 | 1390 |



Sept. 1, 1882.

Art. XXVT.-The Ollest Book of the Chinese (the Yh-King) and its Authors. By Terrien de LaCouperie, M.R.A.S.

More than two years ago, the 10th of May, 1880, at a special meeting of the Royal Asiatic Society, I presented a paper on L'Histoire de la Langue Chinoise, in which I communicated my discoveries on the old phonetic laws of the orthography of the Ancient Chinese writing,-the derivation of this writing from the pre-cunciform characters of SouthWestern Asia, -and also the nature and contents of the longdisputed book, the $\Gamma_{l}$-Ting. I have delayed the printing of that paper in order to make it more precise and complete, but parts of its contents, as well as several results of my researches, have been published, by my friend Prof. R. K. Douglas and by myself. ${ }^{1}$

Since that time these results have gained in accuracy and certainty, ${ }^{2}$ and in a recent letter ${ }^{3}$ I have been able to make

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## some important statements about the $Y /$-King, which bear in no inconsiderable manner on the origin and early history of Chinese culture.

submit my translation, attach, as I do myself, great importance to my discorery about the ' Yh King,' and as this discovery has caused so eminent a Sinologist as Prof. Douglas, of the British Museum, to join me in the preparation of a translation of the 'Yh King,' which we shall publish in English, and also in Chinese in China, it is important to state on what ground it stands.

It deals only with the oldest part of the book, the short lists of characters which follow each of the sixty-four headings of the chapters, and it leaves entirely aside the explanations and commentaries attributed to Wen Wang, Chöu Kung, Confucius, and others, from 1200 b.c. downwards, which are commonly embodied as an integral part of the classic. The proportion of the primitive test to these additions is about oue-sixth of the whole. The contents of this primitive part of the book are not homogencous, and belong to different periods of the early history of the Chinese. It has been made up to the number of sixty-four parts, to correspond with the speculations of numbers on the Kwa, at which time these old fragments and the mystical strokes have been joined together. To reach the sacred uumber of sixty-four it has been fouud advisable by the compiler to add texts much more recent than the older ones, of which the real meaning had beeu lost through the lapse of time and changes in the language. So different in subject are the various chapters that we find, for example, in several of them, curious ballads on historical or legendary events. In others we have descriptions of aboriginal tribes of China, their customs, the meanings of some of their words homonymous to the Chinese ones, instructions to the officials about them, and descriptions of the animals, which descriptions in the greatest number of cases are given in relation to their meanings of the character which is the subject of the chapter. Besides all this-and it is the most curious part of the book as well as the most special result of my discovery-we have a good number of chapters which are nothing else than mere lists of the meanings of the character placed at the head of the chapter. These lists are extraordinarily like the so-called syllabaries preserved iu the Cuneiform characters, which were copied, as we know, by order of the Assyrian monarchs from older oues of Bahylouia. The system of having such phonetic dictionarics with others of different kinds is a peculiar feature of the old $A k k a d i a n$ culture, on the mised origin of which there is uothing here to say excepting this, that it was not carricd bodily into Babylonia, but sprang up in that region from the intrusion of Northeru pooples amongst the highly cultured Cushite populations, who had settled there and possessed that writing of hieroglyphic origin which became the Akkadian and later on the Cuneiform characters. Now there are many most serious facts which prove that writing and the elements of sciences, arts, and governmeut were aequired in SouthWestern $\Lambda$ sia by the future Chiucse colonists from a ccutre of activity where the Babylonian or Akkadian culture had more or less directly been spread. It seems only natural, thercfore, that the early Chiuese leaders should have been induced, not only to kecp some of the lists of values of the written characters which they had learned, but also to contiune the same practice of making lists in relation to the peoples, customs, etc., of their now country. Aud though extraordinary, it is not astonishing that somo of the oldest lists resemble the lists kept in the Cuneiform characters, and that I was ahle to exhibit two years ago at the Royal Asiatic Socicty four of those lists which rum parallel in the ' $\mathrm{I}_{1}$ King' aud in the Cuneiform texts. And no doult the impossibility of reading, as current phrases and texts, simple lists of meanings accounts for the absolute obscurity of thesc parts of the book, and the astoming numher of interpretations which have been proposed by native Chincse scholars. European scholars are engaged on the same path. Wo have already the Latin trauslation by P. Regis and others, made with tho help of tho Manchu version, which is quite unintelligible; the English translation of Canon McClatchie in tho seuse of a cosmogony; and the latin translation in the 'Cursus Lingur Sivice,' in course of publication at Shanghai, where is to be

Peuding the publication of the version of this book I am preparing with the valuable help of Mr. Douglas, I havo been advised, as it is a matter of much interest and importanee, to put together some notes on the authorship ${ }^{1}$ and history of tho $Y_{h}$-King, as well as on the seientific method of dealing with this, the oldest book of Chinese literature. Consequently I have classified my notes in tho following order :

## 1. Deseription of the book.

2. Aneient texts on its authorship.
3. Influence of the evolution of writing.
4. Vestiges of the old text anterior to Wen Wang.
5. Native interpretations.
6. European interpretations.
7. Comparison of the interpretations.
8. Methods of interpretation.
9. Contents and origin of the Yl-King.
found one of the best translations of the Chincse classics which have cver been made. Besides these three, anothcr translation in French is announced as being about to be published in the Amuales du Musée Guimet, by M. E. Philastre, who for some years was a high official in Cochin China; this translation will exhibit a system of philosophy if we may judge from what the author has already written.

Dr. Legre's translation will certainly be an improvement upon the others already published. The many years of work which this Sinologist has spent upou it aud his study of the commeutaries will undoubtedly result in a great amouat of iuformation, as in his edition of some of the other Chinese classics.

So in a short time European scholars will have fire translations of the 'Ih King' to compare, and when our translation, the sixth, appears, they will be able to decide which is the most faithful."
${ }^{1}$ Sereral misleading statements about the authorship and contents of this mrsterious book, aud the manner of translating it, have been lately published in an importaut place, The Sacred Books of the East, vol. xii., the Ii-King, translared by J. Legge. The author has answered in his Preface, p. six, rather sharply to the above letter of mine, and though he has made a Yh-King of his own fashiou, haring formulated the scheme supposed by some commentators more coucisely than they hare doue ( Iid. ibid. p. xir), he dismisses the possibility of understanding the text of the book in a manner different from his own, for the reason that, according to his riews and in his orn words, "if you discard the explanations and commentaries attributed to King Wan, the Duke of Kaü, and Confucius, we take awar the whole Yî. There remain only the linear figures attributed to Fû-hsi, without any lists of characters, long or short, without a single written character of any kind whatever." The proofs of the inaccuracy of these statements of Dr. Legge will be found throughout the following pages. His rersion has been thoroughly refuted by Prof. Douglas, in the Aeademy of July 12th, 1882, pp. 121-123, where is given a comparative rersion, according to our views, of the 30 th chapter of the $Y$. Vid. also my letters in the Athencum, Sept. 9 and 30, 1882.

## I．Description of the Book．

1．The Yh－King is the oldest of the Chinese books，and is the＂mysterious classic，＂which requires＂a prolonged attention to make it reveal its secrets＂；it has＂peculiarities of style， making it the most difficult of all the Chinese classics to present in an intelligible version．＂${ }^{1}$

And the 1450 selected works on the $F$ h－King which are enumerated in the catalogue ${ }^{2}$ of the great Library of the Emperor Kien－Lung，compiled in 1772－1790，point to any－ thing but unanimity in the interpretation of the book by the Chinese themselves．${ }^{3}$
＂The 易 經 Yih King＇Book of Changes，＇＂says the best of living Sinologists，Mr．A．Wylie，in his excellent Notes on Chinese Literature，＂is regarded with almost universal reverence，both on account of its antiquity，and also the unfathomable wisdom which is supposed to lie under its mysterious symbols．The authorship of these symbols 非， which form the nucleus of the work，is with great confidence attributed to the ancient sage 伏 域 Fŭh he．These con－ sisted originally of eight trigrams，but they were subse－ quently，by combining them in pairs，augmented to the number of sixty－four hexagrams．＂${ }^{5}$

2．The figures or Kwa consist of six horizontal lines， divided or undivided，${ }^{6}$ placed one under the other．There is applied a special character to each hexagram，forming its name，at the beginning of each of the sixty－four chapters

[^264]composing the book．Each of these leading characters is followed by a certain number of others，and the entire chapter is arranged in seven lines under special headings， the first bcing the heading character，the other six an ordinal scrics，supposed to apply to each of the six lines of the hexa－ gram individually，because their numbers are accompanied by the characters 九 or 六，indicating，in the opinion of the commontators，the undivided and divided lincs．This set of characters，in seven divisions，the cntire text in cach chapter，is intermingled with forc－telling words－lucky，un－ lucky，correct，no error，ctc．；but these divisions do not make as many phrases．The characters are disposed in little sentences，often of onc character only，or of two or morc． The mcanings of these sentences are disconnccted；they are quite independent one of the other，and do not bear openly on one same subject．A literal version of them is utterly unintelligible．${ }^{1}$ These peculiarities would place the Yh－King in an unexampled position if it were a book of continuous texts，as it has been hitherto wrongly thought to be by many discordant commentators and interpreters，as well Chinese as European．

3．The following commentarics are commonly printed with the text，as follows：The first（in 2 sections），with the heading 录 Twen，disposed in two or more lines，is placed im－ mediately after the first of the seven lines of the text．The second（in 2 sections），with the heading 象 Siang，is placed after the Twan，and after each of the following six lines of the text．Another one，the 文 言 Wen yen，is annexed to－ the first two diagrams．All these compose the first and

[^265]second Kiuen or books of the ordinary editions of the work．${ }^{1}$ A third Kiuen is composed of the following appendices：the繋䲒傳 Hi－Tze Chuen＂Memoir on the Philosophy of the Text，＂in two sections；說卦傳 Shwoh Kica chuen＂Dis－ cussion of the Diagrams＂；序卦傳 Sü Kwa chuen＂The Order of the Diagrams＂；and，finally，the 雜卦傳 Tsa Kua chuen＂Promiscuous Discourses on the Diagrams．＂

The Twan，the Siang，and the Hi－tze，being each divided into two sections，${ }^{2}$ all the appendices have received the name of＂the Ten Wings＂十 翼 of the $\overline{\text { Fh}}$－King．

Such is，roughly described，this famous book as it has been handed down to the present time．

4．The Twan is commonly attributed to Wen Wang，${ }^{3}$ and the Siang to his son，Chöu Kung，in the twelfth century B．c．，and there is no reason for throwing suspicion on this re－ ceived tradition．The other＂wings＂are of different periods． In two of them，the Hi－Tze and the Wen－yen，is found re－ peatedly the same formula，子 $曰$＂The master said，＂as in the Confucian books，when the words of the great Sage are quoted； but this cannot be taken as a proof of date，even for these particular appendices，for，in one case at least，words and explanations from the Wen－yen are quoted ${ }^{4}$ in history as early as 564 b．c．，fourteen years before Confucius was born． Additions from the Sage＇s teachings have most likely been made afterwards to these appendices，apparently by one of

## ${ }^{1}$ Such as the 易經讀本 or 監本易經全文。

${ }^{2}$ In each，the first line of every chapter attributed to the entire diagram is considered as one part，ealled Twan or Siang，and the after lines as another part， called Twan chuen or Siang chuen respectively．The text is sometimes ealled 䩶紬
${ }^{3}$ Wen Wang 文 王＂King Wen，＂or more properly the Elegant King， a posthumous title conferred by his son 円 Tan 周公Chöu Kiung，the Duke of Chöu，to 量 Ch＇ang，the Chief of the West 西伯，father of 政 Fa，posthu－ mously ealled $W_{u}$ Wang 武 王，the founder（1169－1116）of the Chöu dynasty． Wen Wang（1231－1135），for a state offence，was imprisoned at IU Li 类 里， during two years（1144－1143），which ho spent on the Yh－King．The 竹書紀 佂，of which tho chronology down to 826 b．c．is different from the one commonly received，states that he remained six years in confinement．
${ }^{4}$ Cf．Wen Yen，1st Kwa，§§ 1－3，and Tso chucn，Duke Siang，LXth year，§3， in Legro＇s edition，p． 440.
his diseiples, Shang Kiu, who is reputed to have handed down the $Y /$ from his Master.
5. The wings and the text do not make a homogeneous work pervaded by the same ideas or produced by one mind. Their diserepancies and wide differences are not of the kind found between different pens dealing with and commenting on a plain text or a book of a known doctrine. They are not within the range of that mere variety of interpretation which occurs when several commentators have been treating of a recognized system commonly aceepted. They lack that kind of unity of thought or of dealing with ideas which is the back-bone of commentaries, whatsoever they may be, and however wide may be their divergences of opinion; in fact, it seems that they are to be considered as attempts to understand the meaning of the book without knowing what it is. And this we see by the fact, that they introduce incongruous ideas, views, and systems of interpretation of their own. Certainly they have not been written at the same time as the text, nor at about the same period all together. Certain discrepancies of views can only have arisen by a not inconsiderable decay of the language during their respective compositions. Other discrepancies may be accounted for by a difference of dialectical spoken language, not of writing, between their authors. Some passages, for example, are but a mere enumeration of the different meanings of the temporary homonymous words with the sound of the heading character of each chapter. This process is followed in different ways. The author of the Wing called Shucoh Kwa 說 卦, in his last section, has been very near finding the clue to the I\%. He has tried to explain the sound attached to the head-character of eight chapters (under the eight primitive Kicas). He gives lists of meanings for each of these sounds in homophonous words, according to his own pronunciation, which was no longer the same as that of the time when the early lists were compiled, and therefore, consequently, gives meanings which are not in the chapters.
6. The first two wings stand apart from the others, and exhibit more unity; at least more of that unity due to the repe-
tition of the same rows of characters, even when by an addition of some kind there is a sufficient clue to indicate that the text was differently understood. They have all the appearance of having been made to justify the arrangement of the text as they interpreted it, since they very often consist of a mere repetition of the text, frequently with slight modifications and differentiating additions. Their main characteristic is their obvious attempt to interpret the text in a symbolic sense, and to connect it with the linear composition of the hexagram at the head of each chapter, and with its lines individually. This is done plainly with more or less success by the Siang, which is divided accordingly. The Twan in a more general manner deals with the text as related to the hexagram as a whole, and to its strong and weak lines.
7. So much for the general contents of the ten wings. It is not my intention in any way to deal with them, but to leave them entirely aside, as far as my translation of the book goes. I was the first among Sinologists to disconnect openly the text from the appendices. For a scientific study of the contents of the text, and how it has been made, it is of absolute necessity to separate the commentaries from the text, and to treat of the latter alone. The whole book, text and wings, contains 24,107 characters; the text alone, in its 450 lines (from 2 to 30 characters), has 4134 characters only, or about one-sixth of the whole.

## II. The Authorship of the Book.

8. Though Chinese literature is not without several indications as to some authors of the $\bar{Y}$-King, and echoes of old traditions collected by independent scholars, there is not, in the modern statements, that unity of views which would afford a satisfactory basis for investigation. The reason of this is obvious. The names of Fuh-hi, Wen Wang, and Confucius, form so sacred a Trinity, that the mere fact of their having been each more or less connccted with the making of the book as it now stands, has prevented many writers from quoting any tradition which would have detracted from the
glory of either of the three as a sharer in the authorship of the work；hence，they were contented to say，in a general way， that the book was the work of the three saints，attributing the Kicas to Fuh－hi，the text to Wen Wang，and the appendices to Coufucius，a statement the slightest criticism would have easily exploded and shown to be ridiculous and against evidence．

9．We find for example only in popular or unscholarly books，as the 歴代帝王年表，${ }^{1}$ such statements as these：
＂Tai Hao Fuh hi begins to delineate the eight Kwas 太白沓伏韵始書八卦。＂
＂Chou Sin llth year 紂 辛 十 一 祀（i．e． 1144 b．c．）con－ fines Si Püh at Yu－Li 区西伯於美里．Si Pöh practises the Yh 西伯演易．＂And at the end of this very last reign of the Yn dynasty，we find another entry：＂The Yh has text to the sixty－four Kwas 易有六十四卦锌。＂

And at the end of the entries relating to the events of the reign of Ching Wang 成 王，we read：
＂The Yh has text to the three hundred and eighty－four lines易有三百八十四爻鿷。＂

And，finally，in King Wang，36th year：＂敬王 三十六年，Kung tze makes the ten wings of the Yh 孔子作易十翼。＂

10．But if we turn to more scholarly and ancient texts，we find different，in some cases very precise，statements．They， however，almost all agree in their attribution of the inven－ tion of the Kwas to the first name which appears at the dawn of their traditions with an appearance of personality， Fuh－hi．

Here are a few extracts about this first point：
（a）＂In accordance with the Tortoise writings 應之龜書， Fuh－hi imitating their figures 伏 犧 乃 則 象，made the下was of the Yh 作易卦．＂${ }^{3}$

[^266]（b）＂Fuh－hi imitated the Tortoise writing 伏 䄾 則龜書， and made the eight Kwas 乃作八卦．＂${ }^{1}$
（c）＂Pao－hi made the eight Kwas 庖犧氏作而八卦， and arranged their lines 列 其 畵．Hien Yuen arose 軒溒 氏 興，and the Tortoise and the Divining stalks ex－ hibited their varieties 而 龜 策 彰 其 彩．＂${ }^{2}$
（d）＂Pao－hi drew the Kwas 庖 犧 畵 卦，in order to establish their symbolism 以立象．Hien Yuen began the characters 軒 轅 氏造字，in order to set up their instruc－ tions 以 設 敎．＂${ }^{3}$

It is useless to continue these quotations repeating the same thing over and over again，inasmuch as one of the com－ mentaries of the Yh ，the $H i$－$t z e$ ，second part，first section， gives the same statement：
（e）＂Pao－hi first made the eight Kwas 庖 羲…始作八 卦．＂

11．So much for the first delineation of the eight Kwas． As to their multiplication，the unanimity of the traditions ceases，though the larger number of them attribute the opera－ tion to Shen－nung．

In the San Hwang pön $K i$ 三皇本紀，compiled by Se－ma Cheng 司 馬 貞 during the eighth century，the famous commentator of Se－ma Tsien＇s 司 馬 遷 She Ke史 記，and generally printed at the beginning of this celebrated history，we find ${ }^{4}$ the same statement about Fuh－hi， and about Shen－nung ${ }^{5}$ we read：
$(f)$＂He blended the $Y h$ ，and returned each to its place，父 易 而 退 各 得 其 所．Afterwards he multiplied the eight Kwas into 64 diagrams 遂重八卦篇六十四爻。＂

And in the $T i$ Wang She $K i,{ }^{6}$ quoted again at $h$ ，we read：
（g）＂Shen－nung multiplied the numbers of the eight $K$ was重八卦之數，carried them to the square of eight 究八八之體，and formed the $64 \mathrm{~K} w a s$ 篇六十四卦。＂
${ }^{1}$ 字 學 典，f．34，in the great Cyclopedia in 10,000 Kiuen，Kin ting Ku Fin $t^{\prime} u$ shu tsih cheng．

[^267]In the above quoted wing of the $Y /,{ }^{1}$ progress of arts and inventions are attributed to the contemplation of several hexagrams（thirteen in number），which in nine cases at least ${ }^{2}$ cannot be confused with the trigrams，and as these inventions are，several of them，connected with Shen－nung，ete．，we see that，in the opinion of the time of the writer，most likely anterior to Confueius for that part，at least，the multiplica－ tion of the Kwas was un fait accompli at the earliest period．

12．In a most valuable Cyelopedia in 1000 kiuen，com－ piled in 977－983，the Tai Ping yü Lan，${ }^{3}$ we read ：－
（h）＂The Chronicle of Emperors and Kings（by Hwang P＇u Mih，a celebrated seholar of the third century，a．d．215－282） says：帝王呭紀目 The Pao－hi made the eight Kwas；庖羲氏作八卦。 Shen－nung multiplied them into sixty－ four Kwas；神農重之雼六十四卦 Hwang－Ti Yao and Shun 黄帝堯舜developed the hint引而伸 之，and divided it into two Yhs 分 雼 二 易；down to the men of the Hia dynasty 至 夏 人，who called one on account of Yen－Ti＊Lien Shan 因炎帝日連山，and the men of the In dynasty who called the other on account of Hwang－Ti Kwei－Tsang ${ }^{5}$ 殷 人 因 黄 帝 曰歸藏．Wen Wang enlarged the sixty－four Kwas 交王展六十四卦，made elear the lines 9 and 6 著九六之爻，and denominated it the Yh of Chöu 謂 之周易．＂

13．In one of the best critical parts of the Lu she 路 史，${ }^{6}$ by Lo Pi 羅 沁，of the Sung Period，we read：

> 1 繫 䉶, 2nd part, ch. ii.
> $=16,17,21,34,38,42,43,59,62$.

3 太 巫 御 覽 K．609，f．2．A very interesting notice of this Cyclopedia， and its adventures since its compilation，is given by Mr．A．Wylie，Notes on Chinese Literature，pp．146，147．On Hwang P＇u Mih，vid．Dr．Legge＇s Prolegomena to the Shu－King，p． 26 ；and also Mayer＇s Chenese Reader＇s Manual，n． 216.
${ }^{4}$ Yen－Ti $=$ Shen－nung．
${ }^{5}$ The Lien－shan is said to have included eight myriads of words，and the Kwei－ tsang 4300 ．I shall discuss this tradition and its bearing when tracing the history of the written text of the $Y h$ ，and shall quote a traditional list of the headings of chapters which have been modufied by Wen Wang．Vid．§ 31.

6 路 史 餘 論，Kiuen 2，f．1．In Wylie＇s Yotes on Chinese Litcrature， p． 24 ，is the following appreciation of the work：－＂The historical portion is considered of little ralue，and the author seems to have been led astray by an undue attachment to Taouist legends，but there is a good deal of learning shown in the geographical and critical parts＂（here quoted）．
（i）＂In his time Fuh－hi 伏 羲 之 時 himself multiplied the eight Kwas 入卦自重，and himself disooursed upon them and distributed for use 亦自詳于施用；but this text has no place in literature 特末見之交字．Arriving at the Lien－Shan and Kwei－Tsang 至連山與歸 藏，the upper and lower divisions of the $Y$ 反 反易上下 and the illustrations of the hexagrams were all completed 則爻象已 大備，but in that age they were not deeply studied而世弗深究．Coming down to the time of Wen Wang降及文王，while imprisoned at Yu－Li 拘四美里he used them for divination 用以下筮．He added and surreptitiously introduced the foretelling words 加竄繇䈥， and he altered the inferring numbers 更改衍數，in order to regulate the divining stalks of the Great Inference 以 立大 衍之策，that those using them could draw the infer－ ence 吏之可衍．And afterwards the arguments began to be diseoursed upon 而後文解始詳．In consequence it was called the Yh of Chöu 遂名之以周易．＂

This disquisition on the early history of the $Y h$ is most important，and seems to have been done with great eare； it throws light on some passages of ancient authors I shall have to quote，which otherwise would not seem to require so preeise a translation as it is necessary to make，in order to understand them without contradictions．It displays an amount of eritieal research most praiseworthy．The translation of the passage just given can be entirely trusted， as it is not only the joint work of Prof．Douglas and myself， but has also been revised by an eminent native Chinese seholar．I shall，later，have to deal with what is said about the text previous to the Chöu dynasty，as well as with other information given later in the same work，but with this I have nothing to do in the present stage of my investigations．

14．I will now turn to some older texts bearing upon part of the work done by Wen Wang．

And here I find two allusions to it almost in the same terms in the longest wing of the $Y h,{ }^{1}$ from which we have already

[^268]twice borrowed some information．There we read，in Dr． Legge＇s translation ：
（j）＂Was it not in the middle period of antiquity ${ }^{1}$ that the Yh began to flourish？Was not he who made it（or were not they who mado it）familiar with anxiety and calamity？＂And in another passage：
（k）＂Was it not in the last age of the Yn（dynasty），when the rirtue of Chöu reached its highest point，and during the troubles between Wen Wang and（the tyrant）Chöu，that （the study of）the Yh began to flourish？＂

This does not say that Wen Wang wrote the text of the book，but only that its study began to flourish in his time．We know by other traditions that its study was neglected before，and all this agrees perfectly well．How－ ever，as Wen Wang had a great deal to do with this study， we can only take the tradition about his pretended author－ ship of the text as a summary statement，a voiding com－ plicated explanations，the more so that this is in complete agreement with the nature of the Chinese，whose veneration for the ancestors of their statutes concentrates everything on the star－men of their night－like historical traditions．
lo．From the third commentary of the $Y$ ，I have now to come down to the second century b．c．，and must consult the celebrated Historical Records 史 紀 of the Herodotus of China，Se－ma Tsien 司 馬 遷．In his Chöu Pön Ki 周 本紀，a certain passage added to the life of Si Pöh $=\mathrm{V}$－ Wang（which has all the appearance of an interpolation）， I read ：${ }^{2}$
（l）＂When he was imprisoned at $Y u-L i$ 其 四美 里，he （Wen Wang）extended 荟 the profitable changes 益 易 proper to the eight Кwas 之入 卦 $^{3}$ in favour of the sixty－ four Kwas 爲 六十卦。＂

[^269]It is here plainly indicated，as in the quotations above （ $h, i$ ），the very work of Wen Wang，who，distinguishing the weak and strong lines，has extended their eight changes so as to correspond with the text．

16．In the Former Han Records，compiled by Pan Ku， some one hundred and fifty years after the Historical Records of Se－ma Tsien，I read in the section on Literature ：${ }^{1}$
$(m)$＂Wen Wang then multiplied the six lines（of trans－ formation）of the Yh 文王於是重易六爻，and made the first and second book 作上下篇．Kung She formed with the Yh＇s 孔氏 篇 之Twan，Siang，Hi tae，Wen yen， Sü Kwa，the ten supplementary books 象象繋澥 女 言 序卦之屬十篇。＂

This is in perfect agreement，excepting the substitution of the Sü̈ $K w a$ for the Shwoh $K w a$ ，with what had been said before by Se－ma Tsien，who，in his＂Life of Confucius，＂${ }^{2}$ had written ：
（n）＂Kung tze，when old，also enjoyed the Yh 孔子晩而喜易．He arranged（or put in order ${ }^{3}$ ）序 the Twan，the Hi，the Siang，the Shwoh Kwa，and the Wen yen 豕繋象說 卦 文 言．${ }^{4}$ During his study，the leather thong of（his copy of）the Yh was thrice worn out 讀易韋編三絕．＂

17．This is all that is said by Se－ma Tsien，and nothing more，and it is this passage which has been quoted ${ }^{5}$ as the proof that，according to Se－ma Tsien，Confucius wrote several appendixes to the Yh ．As a matter of fact，the great Historian says nothing of the kind，and to what extent the pencil of Confucius has been at work in the Appendices is entirely left in the dark by the bistorical quotations which have been found about it．

[^270]The absolute silence about the work of Chöu Kung，if the Siang 象 comes from his pen，would be worth considering，if there was not elsewhere（in the Tso chuen）a recognition of his authorship．The text is speaking of an envoy of the Marquess of Tsin to the State of Lu．${ }^{1}$
（o）＂Looking at the books in charge of the great
 the $\mathrm{Y} h$ and the Chun Tsiu of Lu 見 易 象 與 䁷 春 秋， and said：$E$ the uttermost of the Institutes of Chöu are in Lu 周禮䨿在隹㚐．Now，indeed I know the virtues of the Duke of Chöu，吾 乃 今 知 周 公 之德，and how the Chöu attained to Royalty，與 周之所以王也．＂

This happened in 540 b．c．，when Confucius was yet a child of eleven years，and so，some sixty years before he enjoyed the $Y$ Yh King．

18．Besides the indications to be found in the historical texts and traditions set forth in the preceding pages，there is much raluable information as to the earlier $Y$ ，and the progress of the $Y /$ of Chöu from $6 \pi 2$ to 486 b．c．in this same Tso－chuen，supplement by Tso k＇iu Ming to the Ch＇un Tsiu of Lu，compiled by Confucius．

The $\mathrm{K} w a$ and their appended meanings and list of characters are quoted some twenty times in the Tso－chuen． Studying these with care they give the most suggestive information as to the history and composition of the book．

19．I resume these quotations as follows：22nd year of Duke Chwang（672）：The Yh of Chöu brought and con－ sulted in the state of Ch＇in by an officer of Chöu．The same thing happens in the 7th year of Duke Süen（602）．

The milfoil consulted in Tsin，Tsi，Ts＇in，Lu States in 1st and 2nd years of Duke Min（661－660）；three times in 15th year of Duke Hi（645）；25th year of Duke Hi（635）；16th year of Duke Ch＇ing（575）；9th year of Duke Siang（564）； 25 th year same duke（548）．

[^271]The Yh of Chöu consulted in Tsin, Lu, Ts'in, Wei States: 12th year of Duke Süen (597); 9th year of Duke Siang (564) ; 28th year of same Duke (545) ; 1st, 5th, 7th, 12th, 29th, 32nd years of Duke Chao (541, 537, 535, 530, 513, 509 ) ; 9th year of Duke Ngai (486 b.c.).

The Yh of Chöu does not appear in the Tsin state before 597 , in Lu before 564, in Tsi before 548, etc., and before these dates, in 672 and 602, only in the hands of officers of Chöu. The milfoil, however, was often consulted in the same states before these dates, and some texts more or less alike to Chöu's Yh text are quoted.
20. The result appears to be that the $Y h$ of Chöu was more especially used in the state of Chöu than elsewhere, but was not in common use in the other states so early as 672 , though the book existed at the time. In this year the great Historiographer of Chöu uses himself the Yh of Chöu, of which he had brought a copy with him, in the state of 陣 Ch'in, and quotes the exact characters of Kwa xx. $6-4$, of the present text of the book. Afterwards we do not find the Yh of Chöu quoted till 70 years after this first date, and once again, in the state of Ch'in, by an officer of Chöu, who quotes a meaning. In the mean time, not less than six times, the divining milfoil is consulted in the states of Tsi, Tsin and Ts'in; hexagrams are quoted, meanings and text are reproduced, exhibiting discrepancies with the present text, and in any case never extracted from the Siang.
21. After the occurrence in 602 above quoted, the $Y h$ of Chow is again consulted in 597 in the state of Tsin, and, excepting two occasions in 575 in Tsin, and 548 in Tsi, when "divining by the milfoil" is the expression used, there occur in the records of the ycars $564,545,541,537,535,512,509$, and 486 extracts which are all exact quotations of the $\Gamma h$ of Chöu, being meanings and characters from the tcxtor the Siang, though not always in accord with Dr. Legge's translation. In 564 , the forctelling words of the $Y$ h of Chöu arc distinctly quoted in addition to the meaning of the Fwa quoted from the older. $Y h$, and in 540 , when Confucius was a child of eleven years, the Arehives of the state of Lu are congratulated for coutaining
the Siang of the $I /$ by the Duke of Chöu，as wo have seen above．

All this points unmistakably to the existenee of the text of the $Y / h$ as independent and anterior to the $Y / 6$ of Chön．${ }^{1}$ When this last is not eo nomine quoted，and when they only say that they divino by the milfoil，they never quote any passige from the Siang，but ouly characters and meanings of the text．

22．I do not find in any aneient authority，the assertion so simple in itself，that Wen Wang did or wrote the text of the $I^{\prime} h$ ．It has crept out as the expression of a natural Chinese feeling，and is to be found only in rather recent time．Even as late as the twelfth eentury，the Chöu yh pön $n g i$ 周 易 本 義，by the famous Chu Hi 朱 萦，does not express it．${ }^{2}$ It is a mistake to believe in a eommon eonsensus or general and unique tradition attributing the authorship of the text of the $Y / h$ to this king and his son，and all those who may follow what has been stated lately with great emphasis by a well－known Sinologist will only repeat a serious error．And the mistake will be the more amusing if，as has been done， they appeal to the traditious and beliefs of foreigners；it is difficult to know what may be the traditions and beliefs of foreiguers about the $Y /$ ，as they eannot have any others than those they hare picked up in some Chinese books．At any rate they may be dismissed at once by inquirers as second－ hand information，${ }^{3}$ as until now the matter has never been seriously investigated．

[^272]The comparison of all these authorities of different periods makes it clear，without possible doubt，to any unprejudiced mind，that the text of the Yhe existed long before Wen Wang，${ }^{1}$ though not exactly as it now stands；that he studied it， modified it，and commented upon it．${ }^{2}$

## III．－Influence of the Evolution of Writing．

23．The remarkable evolution of speech and of writing in China，their early association and close connexion，their subsequent dissociation and respective disintegration，${ }^{3}$ are of prime importance for any scientific investigation of the oldest texts of Chinese literature．We have multifarious proofs that the writing，first known in China，was already an old one，${ }^{4}$ partially decayed，but also much improved since
these eight figures（the eight $\mathrm{K} w a s$ ），together with the sixty－four combinations to which they are extended，accompanied by certain presumptive explanations attributed to Fuh－hi，were the basis of an aucient system of philosophy and divination during the centuries preceding the era of Wen Wang．．＂See Mayer＇s Chinese Reader＇s Manual，vol．ii．p．241，who quotes（p．336）his uative authorities，noue of which have been quoted above，and consequently are to be added to them．
${ }^{1}$ In a dictionary ot the Han period，the 釋 名 by 劉 熙（2nd cent．A．D．？） we read that＂At the time of the Canon of Yao 唯堯典（2356－2255 в．c．？ or 2145－2042 13．c．？）they kept the $Y$ h 存 易。
${ }^{2}$ There are several passages in the text of the Yh which have becn interpreted as allusions to places or facts connected with the rising of the Chöu，etc．，but this is not the plaee to deal with them．It will be seen in my translation or seientific analysis of the text，that they have nothing to do with the meanings which hare been forced upon them afterwards．
${ }_{3}$ For want of space，I have to summarize in this section a score of pages in which I had summed up from my large work in preparation on the subject the leading facts and proofs of this double evolution．

4 We have convincing proofs（vid．my Early History，pp．21－23，aud the last section of the present paper）that it had been borrowed，by the early leaders of the Chineso Bak families（Pöl Sing）in Western Asia，from an horizoutal writing traced from left to right，the pre－cunciform character，which previously had itself undergono several important modifications．Following their old habit of notched sticks and knotted cords，the Chinese disposed iu perpendicular lines，aud eou－ sequently had to put up tho elnaracters too wide for the regularity of the columns． This was donc aecording to the objects represeuted by the characters．Vid．for examplo the $\mathrm{Ku}-w a n$ shapes of the following characters：turned up：口， the two lips and tip of the tonguo＝mouth ；El，tho two lips open aud breath ＝speak；$甘$ ，tho two lips and something in tho mouth＝taste；目，＝the cye， etc．，etc．Turned up from the left：言，tho two lips open and voice $=$ speech；寊，two heights＝colline；䣽＝a tortoiso；荷，an animal，afterwards a horse；etc．，etc．Turued up from the right：抽＝a boat；臣，tho upper part
its primitive hieroglyphic stage．Although many of them had kept their early pictographic and ideographie values，the charae－ ters，selected aceording to their sense were used phonetically，${ }^{1}$ isolated and in groups，to represent the monosyllabie and polysyllabic words，as well as the compounds ${ }^{2}$ of the spoken
of the face＝minister；臣，the lower part of tho face，the chin；真，a scatcd man，good；etc．，etc．

1 The phonetic combinations in early Chinese have been singularly disturbed by the putting up spoken of in the last note．In the borrowed compounds，when unchanged in direetion，the reading goes from left to riglit ；when put up trom the left，it reads from top to bottom；when put up from the right，the most frequent， it reads from bottom to top．These various directions，according to the shape，size， and sense of the characters，were imitated afterwards in the new compounds，as loug as and where the old principles of phonetic orthography were not forgotten．Here are a few examples of this orthography in the oldest Chinese claraeters transcribed in modern style of writing：南＝Nam（mod．Nan）was written with 单＝Nen （mod．Jen）under 太＝Muh；去＝Kop（mod．Kii）was written $U=K a m$ （mod．$K^{\prime \prime}$ an $)$ under 八＝Ping；先＝Din（mod．Sien）was written $\underset{\sim}{2}=D i k$ （mod．Chi）over $\lambda=\hat{M e n}(\bmod . J e n)$ ：仙 $=\hat{S e n}(\bmod$. Sien $)$ was written 山 $=$ San（mod．Shan）followed on the right by $\boldsymbol{\Lambda}=$ Nen；耿＝Keng was written $火=$ Kwo followed on the right by $\mathbb{Z}=$ Nip（mod．（Ett）；仁＝Jen was written $尸$ shi followed on the right by 二 $=\sqrt{7}$（mod．$E \imath$ ）；etc．，etc．
${ }^{2}$ The orthography of the bisyllabie or polysyllabic words presents the same phenomena of reading as the two－consonanted words，and for the same reasons． The only disturbing fact whieh may prevent their recognition is that，the final of the secoud syllable having been often dropped by phonetic decay，the compound has the appearanee of a biconsonanted word．The reading most frequently found for these compounds is generally from left to right，but the other directions also occur．The great interest in this discovery is that the old groups did express not only the monoconsonant－or biconsonant－syllables，but also the polysyllables and compound words of the colloquial，many of which can still be recognized，though more or less decayed since that time．In the comparison with the spoken words， it is important not to forget that the characters used to express the compound words in colloquial are not to be pressed by themselves as a help to restore the older sound of the expression，as they have been used only afterwards to ex－ press the spoken word，and they are not etymologically connected to it．The book－language of the dialects is more fallacious than useful for this purpose． A few examples of various kinds are necessary to illustrate these explanations． Ex．摶 $t w^{\prime} a n=$ to roll up，to beat，was written in Ku－wen 支干矛 and 支干每 which both read TKII，as the three characters were Tih（mod．chi），Kan，and Meu or Muh．Now the colloquial has kept an expression 打 滘＝ta kwan＝ ＇to roll about on the ground，＇which is obviously the same with a slight differentia－ tion of meaning，whilst the phonetic decay in the older offieial dialeet has con－ tracted the whole together into $t 20^{\prime}$ an．Ex．咸 $=$ hien $=$＇all，the whole of，＇was written in the Ku－wen 甘＝Kain under 戌＝Thu，or Kam－thu，for which we find the colloquial hien－tsih（咸 集）and the contracted form kat（皆 mod． Kiai）．Ex．䯡＝Lan in Ku－wen 文粦＝Ban－Lan（mod．Wen－lan），and in collo－ quial Pan－lan 文扁 斕＝＇variegated colours．＇懤 $=T a 0=$＇to pray，＇in Ku－men same orthography：示 $=K i+\frac{⿳ 士 乛 工 一 ⿰ 口 口 寸 刂, ~}{\text { a }}=T h o$ ，in colloquial 形 禱 $=K^{\prime} i$－tao or
language．${ }^{1}$ At that time the writing of the Ku－ccen was really the phonetic expression of speech．${ }^{2}$（By an analysis of the old inscriptions and fragments，and by the help of the

告 聼 Kao－tao，the contracted form is Kit 形 mod．$K^{\prime} i$ ，etc．ete．Vid．other examples below，$\$ 31$ ，and the following note．

To uuderstand，with this true history of the Chinese characters，the rough hieroglyphie signs which（more or less exactly reproduced in every European book treating of the writing）are wrongly quoted as primitive，and present a striking contrast to the really advanced state of the oldest written words，we must not forget，besides the hieroglyphical revival of 820 в．c．（which has produced no in－ considerable influeuce on the pietography of the characters），that these rough signs are found only on made－up antiquities，or misunderstood imitations，and also in rude inseriptions written by meu unaequainted with the science of writing，which was the privilege only of a small number of the learned．We have in the Tso－chuen many proofs of this last assertion，as the＇Book of Odes＇could be read or sung intelligibly only by specialists．
${ }_{1}$ The Chinese languages are phonetieally deeayed in the extreme；however，in their present stage they are not monosyllabie，but agglutinative．The theory of their monosyllabism，and in fact its sad influence on linguistic progress，arose from a misunderstanding of the syllabism of the present writing supposed to be spoken， and the wrong assimilation of the old writing to it；and also from the confusion between the monosyllabisms of elozution and of decay，with a supposed logieal mono－ syllabism；the whole combined with the false hypothesis of a primeval mono－ syllabism．
${ }^{2}$ Here is an interesting proof of this remarkable fact，from the Shu－king，The great announcement，大誥，§ 2．The Ku－wen phrase is from the text engraved on stone（ 245 A．D．）in three styles，Ku－wen，Siao－ehuen，and Li－shu （Vid．三 字 石 經，f．6）．The phrase we take as an example is in modern style：越 澈 奞，translated by Medhurst，＇And now we sce their stupid commotions，＇and by Dr．Legge，＇Accordingly we have the present senseless movements．＇This supposed despising expression is intended to quality a military rising，which had been prognosticated in the West according to the preceding phrase．But as the troubles arose in the East，there is a disagreement which the eommentators childishly solve by saying that the troubles arose indeed in the East，but they necessarily went on to trouble the West．The Ku－wen text gives the solution of the difficulty，which came from an inaceuracy of the transeribers． It reads as follows：粤 鼔 童 $=$ Fueh tze chun，which in spoken language cannot be understood，but whieh disintegrated as we must do for the Ku－wen， give：于 闌 始 春 戈＝yü－shen tze chun－ko，are more audible and completely intelligible to the car in the colloquial yu－shen tze tueng－ko 尤 甚 媇 動 戈 $=$ moreover（is）this rising－in－arms．The above quoted translation must be amended according to the latter，which is the true meaning of the gemume text； it does not imply any contradietion，as the modern text does；the king alludes hero obviously to the actual outbreak in the East，and not at all to the predicted troubles iu the West．As to the necessary philologieal apparatus of this reading， which I shall give in my Outlines of thic Evolution of Speech and Script in China，it will be suffieient to say that：春 ehion was formerly tün；無＝$=$ vu－ than（mod．yu－shen）contracted in the compounds in viet（Sin－Ann．）yweh（Mand．）， is still found under the false written etymology 筑 告（Viet－tinh）yiieh－sheng， a name for the Canton province．I hope that direct proofs，as this example from the Shu－king，will convince the Sinologists of the truth of my discovery of the reading of the old Chinese texts，and consequently，how inportant it is to gather all that remains still to be found in China of texts in ancient or Kin－ wen characters．
native works on palcography（some most valuable），I have compiled a dictionary of this period．）But such a writing could not last long，as gradually and inequally the old principles of orthography were lost，while this orthography was not modificd to follow the evolution of the spoken language， and the segregation of dialects parallel with the territorial expansion of Chincse culture and power．In fact，the groups were gradually considered as mere ideograms，and the discre－ pancics which arose in the various states of the Chinese agglo－ meration rendered necessary some kind of unification．

24．This task was attempted，at a moment of temporary revival of power of the Chöu dynasty，under Sücn Wang， by his great historiographer She Chöu．This great minister undertook，about $\delta: 0$ B．c．，to modify the writing in such a manner that it could be understood whatever might be the dialectical differences between the states．For this purpose he drew up his Ta－chuen style；rectifying the characters pictographically，restoring many hieroglyphic shapes ac－ cording to his views，and adding ideographic characters to many existing and known groups in order to give the necessary precision and to avoid any misunderstanding．${ }^{1} \mathrm{He}$ tried to speak to the eye and no longer to the ear．${ }^{2}$ In

[^273]the states where his very characters were not used，his principles of ideographism at least were extensively followed， though not accepted everywhere．${ }^{1}$ The decline of the Middle－ Kingdom let the matter drift again．

25．When Ts＇in She Hwang Ti brought all the states under his sway，one of his first cares was to have an uniform writing in the empire．He had，about 227 b．c．，the Siro Chuen framed by a simplification of the Ta Chuen of Se－Chöu on the same principles，according to a previously fixed standard of various strokes，${ }^{2}$ and，a few years afterwards，the $L i S h u$ ，more square，and fitted to the use of the pencil，newly improved．From the time of She－Chöu，the system of ideo－ graphic aphones had facilitated the use of added characters as phonetics to express new sounds and new meanings；${ }^{3}$ this process of ideo－phonetic groups was largely used in the new writings，and became the principal factor in the writing of new words from that time downwards．In their otherwise rather childish explanation of the old formula of the Luh Shu，the Han scholars had recognized the importance of this process． Finally，about 350 A．D．，the celebrated caligrapher Wang Hi Che，without modifying the principles，gave to the writing the modern pattern the Kiai Shu，which，excepting a slight improvement during the Sung period，is still in general use．${ }^{4}$

[^274]26. The evolution of the Chinese writing being not only a matter of form and shape, but a matter of principles, it would be ehildish to suppose that the character of the old texts could bo found in the modern charaeters, allowing even for the necessary modification in the shape of the strokes. It does not require any explanation to understand that any text to be transeribed from the early Fu-zen into Ta-chuen, next into Siuo-cluen or Li-shu, afterwards in Kiui-shu styles, ought to have been thoroughly elear to the scribes, even supposing that the latter had alway's been earnest and unprejudiced writers. But what in the ease of unintelligible texts? Exactly what has happened to the Yh-King. The purpose of the transcribers being only the ideographical

[^275]rendering of the meaning，the substitution of ideographical characters to others which were less so，became a necessity to them，in order that the meaning might speak to the eye of the reader．But，at the same time，by an association of the respect due to the old texts，in accordance with the great veneration always felt by the Chinese for anything handed down from their ancestors，they thought themselves bound in each possible case to substitute a character homo－ phonous to the sound they could，by tradition，or otherwise， attribute to the old and unsatisfactory one．

27．As to the Yh－King，there was happily in these tran－ scriptions from one style into another，a serious barrier， opposed to too numerous changes，in the great veneration in which the written words of the sages of yore were held，quite special in the case of this mysterious classic，with consequently a certain kind of fear of altering them．Otherwise we may be sure that the substitution of characters，if carried to the same extent as has becn done in the case of the Shu－King，${ }^{1}$ where it seems that the alterations reached to a full quarter of the total number of the characters，would have been much more considerable．

But as the addition of ideographic determinatives to old characters or groups，could be done without，in their views， altering the sound or the appearance，the process was much more largely followed than any other．${ }^{2}$ As to the mean－

[^276]ings of the characters in the case of the addition of idco－ graphical determinatives，two cases have arisen．The tran－ scribers may or may not have added the proper determina－ tive to detcrmine the exact meaning with which the old character was used in the partieular casc．In difficult in－ stances the context was of great help，as in the Shu－King， or in the wings of the $Y /$ ，where special phrases are found． But when the sense of the eontext is of no help，or does not exist，the problem could by them only be solved by an arbi－ trary or guessed interpretation，which they expressed，how－ cver，in their transeription，by the same system of adding idcographical determinatives．

It is necessary for us to remember these facts，as they show how unavoidably large has been the influcuce of the ideas and prejudiced vicws of the cpochs on the works of the transcribers．${ }^{1}$
evert paragraph some righteous decision，has laid them open to many absurdities （Legge，ibid，p．5）．Now it we consider that according to the principles of writing at the time of the Sage，a grcater importance was given，since She Chöu，to the ideo－ graphic values of the characters，and that the writer，iu order to surgest a com－ plementary idea or fix its meaning，could add an ideographic aploue，we are not far from the explanation．And then if we examine the text，we are sure that here is the solution．so，for instauce，whilst recordiug the deaths of grcat officers， princes，rulers of states，etc．，he made use of 卒＝＇finish，＇when he has to record the deaths of the sovereigns of his state（Lu），or of their wives，he used the character 夢＝＇obscure＇（to which has beeu substituted in Siao－chuen style薨）to show the respect to which those dead were entitled；it did not allow to cousider them as＇finished，＇as it was more proper to say that they bccame obscure and could uo more be seen．Again in the records of murders，when the murderer is of the same rank or superior to the killed，Confucius used the ordinary character殺＝＇to kill＇；but when it is the murder of a ruler by a subject．or of a father by a son，the Sage uses auother character 弑，which he framed himself for the purlose：he substituted for the determinative 攵＇to kill，＇the character 式 ＇rule，＇＇pattern，＇to show his censure of the tact．I shall study this more largely clsewhere．There is，about the transeriptions made from the old Ku － wen texts into the Si－shu，Siao－chuen，and finally the modern style，a curious remark to make．It is the great influence of this system of praise and censure on the selection of substituted characters，the addition of ideographic determinatives， in fact all the modifications introduced by the transcribers．It produces the same effect as if they had endearoured to transform every text into a smooth stream of righteous principles and moral conduct．Almost in every case where we can restore the old texts，we find in them much more energy and precision．
${ }^{1}$ These various influeuces of ideographism，and of interpretations by the transcribers，have also to be taken into account in any complete study of old Chiuese grammar．The European scholars who have worked upou the ideology， phonetism，aud morphology of the Chinese language in the classics，have not yet been able to appreciate the difference which the ideographic transcription they have in hand has produced upon the old style they have uot．They were not

## IV．Obvious Vestiges of the Old Text．

28．On the old text of the $Y$－King very little direct information is at hand，and I shall have to find some that is indirect．As it is certainly embodied in the present text，my task in my translation will be to find it out through a minute study of this text，checked by the history of the language and writing in which it is written．

Of the Kwas $I$ shall not say much，as they are not my immediate purpose．Their original delineation is connected， as we have seen，with the writing of the tortoise．Traditions repeatedly found in literature mention the map of the Ho river and the writing of the Lo river．The great appendix of the Yh says：＂The Ho 河 gave forth the map and the Lo 洛 gave forth the writing，which the sages took as pattern．＂${ }^{1}$ It is further said in the Li－Ki ${ }^{2}$ that＂the map was borne by a horse 馬＂and elsewhere that the writing was on the back of a divine tortoise．${ }^{3}$ This statement has been repeated by Confucius，and it requires an explanation． Throwing off the legendary apparatus of style with which they are traditionally reported，we find in these events two very simple facts．The Tortoise writing given forth by the Loh river is very likely the finding of a large tortoise shell of which the lineaments answered to a certain disposition of numbers．${ }^{4}$ As to the map produced by the Ma 馬 from the Ho river，we have to suggest that it was nothing else than one of these numerical inscriptions，afterwards improved

[^277]into an arithmetical puzzle, of cup marks as found in India on cliffs and rocks or banks of rivers, and connected somehow with a native tribe of which the name has been frequcutly expressed phonctically by a character meaning a horse. ${ }^{1}$

At any rate, the two objects, whatever they were, are enumerated in the Shu-King among the treasures kept at the Chinese court as late as 1079 b.c., where we find mentioned, the $\Pi_{0}$ tu 河 圖, the great Tortoise-shell, etc. ${ }^{2}$
29. If the Kwas, which were a survival of the arrows of divination known to the ancestors of Chinese culture bcfore their emigration eastward, ${ }^{3}$ have been traced out from the lineaments of the tortoise shell, we should suppose that the plain lines and the broken lines were intended to represent the non-crossed and the crossed lincaments; and if from the thrown divining rods also, from the same fact of their relative positions of crossed or non-crossed over. But now we arrive at speculations void and fruitless, and it is time to stop.
30. In the Shu-King we find an extensive allusion to divination, as done by the Duke of Chöu, who consulted the oracular lines kept in the Royal Treasury, and we know from the Chör Li that " the forms of the regular prognostications were in all 120, the explanations of which amounted to 1200." ${ }^{4}$ Are we to take these numbers literally? Could not we suppose that we have here an indication of the two rows of each hexagram, which seems to have been the main division of the Kwei-Tsang, and in six times this number their division according to the lines; this hypothesis would prove satisfactory if we had 128 and 1248 , instead of 120 and 1200 , given perhaps as round numbers. Or, have we here quite a different system of oracular lines? This might be, as

[^278]the Duke of Chöu consulted the tortoise ${ }^{1}$ instead of the milfoil usually employed for the divination by the diagram．${ }^{2}$

31．We have seen above that the two Yhs，earlier than Chöu＇s Yh，were the Lien－Shan under the Hia dynasty （2205－1766）and the Kwei－Tsang under the Yn dynasty （1766－1122 в．c．），both including the sixty－four Kwas．${ }^{3}$

The Lien－Shan does not seem to have had the text divided between the sixty－four Kwas，but only under eight divisions or perhaps the eight principal Kwas，as the tradition says that its text was composed of eight myriads of words．${ }^{4}$ This agrees to a certain extent with the meaning of the name Lien－Shan $=$＂united mountains，＂by which we can understand
${ }^{1}$ In the Tso－Chuen we find several references to this different system，of which it may be interesting to quote one here：in 635 в．c．The Jrarquis $W_{\mathrm{e}} \mathrm{n}$ made the master of divination，len，consult the tortoise shell about the undertaking． He did so and said，＂The oracle is auspicious，－that of IIwang－ti＇s battle in Fan－ts＇iun．＂The marquis said，＂that oracle is too great for me．＂The diviner replied，＂The rules of Chöu are not changed．The King of to－day is the Emperor of Antiquity．＂The marquis then said，＂Try it by the milfoil．＂They cousulted the reeds and found the diagram，etc．，etc．See Legge，Chinese Classics，rol．r． p． 195.
${ }^{2}$ In the same work，fourth part of The Great Plan，we read an interesting instruction $a$ about the dirination to be practised in case of doubts ：
＂Seventhly，on the examination of doubts 七䅂疑．Select and appoint special officers to divine 臎建立下䉓 入．And as to the orders to divine，${ }^{b}$ 乃 命 $卜$ 答，they are called rain El 雨，called clearing up E 露，called cloudiness $巨$ 蒙，called disconnected E 驛，callcd crossing E克，called correctness 日 貞，called repentance 日怚．Of these seren凡 七 divine by the tortoise five 下五，and as prognostics use the other two 占 用 二，to trace out the errors 衍 忒。

As we have most probably here a relic of the Hia dynastr，it is interesting to find in it this statement of seven orders，or perhaps sets of slips for divination． I shall examine elsewhere what connexion，if any，may lave existed between these seven orders and the meanings attributed to the eight diagrams，two of which agree．It would secm that we have here seven series iudicated or diviuiug slips instead of eight，which，one may suppose，was the number of classes of rows of characters used in the consultation for prognostics in the Lien Shan system．

Notes．－a I find a rather different translation in 85 words in Dr．Legge＇s Chinese Classics，vol．iii．p．335，but with the addition of so many words which are not in the text，that I prefer to give a more literal translation．－b 命 trans－ lated＇decree of divination．＇Cf．Medhurst＇s Shoo－fïing，The Great Announce－ ment，p． 217.
${ }^{3}$ In fact the period 1766－1122 includes two dynastics，the Shang from 1766 to 1401，and the $Y n$ afterwards；but this last name is also given to the whole period．
${ }^{4}$ Vid．Tai Ping Yülan，K．608，f．5．入 莺 as usual is not to be taken literally 80,000 ，but as moaning eight indeterminate innumerable quantitics．
the lack of the distinctions and distributions afterwards introduced．

The Kicci－tsang＝＂returned treasures，＂by which meaning we understand the attributions of the meanings to the Kwas and their parts，${ }^{1}$ is a little more known to us，though the very text co nomine no longer exists as an independent and separate work．We have seen that it had a certain division of the text in two parts，probably according to the inner and outer diagram of each hexagram，and it secms likely that these two parts in every chapter were again divided in six．The text was composed of four thousand three hundred words．${ }^{2}$

32．The documentary evidences on the old text of the $I / h$ are of several kinds．Some consist of the quotations in other classics，others arc the result of internal indications，and also the palæographical proofs．

We have already（\＄18）spoken of an evidence of prine importance in the score of quotations given in the Tso－Chuen．They do not always agree with the text as we have it，and the discrepancies are not in every case those which can be attributed to clerical transcriptions．The dis－ crepancies exhibited by the quotations indicated where they divine by the milfoil and before they indicate the Yh of Chöu，point certainly to an old text which has been wilfully modified in the $I / h$ of Chöu．In elucidating my version I hope to show all these discrepancies，and in several cases

[^279]the causes of their modification, by Wen Wang; but we have no room here for such an investigation.

33 . It would be also beyond the scope of these pages to show the serious differences of style between that of the Text, in the case of phrases, and that of the oldest wings, the Twan and the Siang, works of Wen Wang and of Chöu Kung. They are not all of the same period, the Text exhibiting an older stage of grammar. Many peculiarities of style in the Text are not of those which have been introduced by the western influence of the Chöu, and consequently, as they cannot be more modern, they point to an older period. It is a fact of the evolution of the language, which $I$ have traced up and explained elsewhere, but my present version points out the many materials which the text of the $Y / h$ offers for that purpose.
34. Another argument, the several cases of which I am able to point out in my version, is in connection with the foretelling words, showing their ulterior addition to the primitive text in accord with what we know by the tradition as has been shown above ( $\S 13$ ). It is that in the rhymed chapters, they are outside the rhymes! The importance of this fact must not be neglected, as it shows that the text was written before its partition into separate lines to correspond to the weak and strong lines of the Kwas, and before the intermingling of the words of fate.
35. A careful study of the $K u$-wen text of the $Y /$ would be of the greatest importance. It would certainly discriminate the alterations introduced by Wen Wang : I, therefore, await anxiously the good chance which may put in my hands, or in those of any one of more ability, the text Ku-uen handed down by $F e i$-shi, a text which was not different from the Imperial copy revised by Liu Hiang about the Christian era, at the time of the Literary Revival under the Han dynasty, as will be seen below ( $\$ 48$ ).

The numerous palæographical works compiled with great care by the Chinese (several of which would do honour to European scholars), and the comparison with many inscriptions, afford a not inconsiderable amount of information
towards the recognition of the old meanings of the characters，besides their values in the Shu－King and the Shi－King．But all this requires a good deal of patient research and comparative criticism for a profitable use of them．

36．In the absence of the continuous text of the $Y /$ in old Tu－ven characters，we are not altogether deprived of certain tidings，and though they cammot，as the text would do，give us the same amount of information，they are not to be negleeted．There are two means for finding them，first，by the palæography，and secondly by the traditions in litera－ ture．

Characters of the Ku－icen text of the $\overline{T h}$ are found in Chinese palwographical works，${ }^{1}$ and some have occasionally been quoted by the late M．Pauthier from the text of Fei－shi which he possessed in his own library．Though these charac－ ters are not numerous，they are not without their utility for our researches．The comparative studies I have made for my history of the Chinese language，on the transformations of the Chinese characters from the most ancient period downwards， allow me to say what we learn from these characters quoted from the old Yh－King．They concur in fully strengthening the exactitude of the traditions quoted above on the existence of the old text of the $Y h$ ，or the greatest part of it，long before the time of Wen Wang，its partial modification， completion and arrangement by that sage，and the author－ ship of the Tican and Siang by the same and by his son．

37．These characters are of three kinds．Sorne，which come from the text，are of the oldest period when the writing was the faithful reproduction of the language．This stage had passed away at the time of Wen Wang and his
${ }^{1}$ Such as the 分書分類 by Fu Lwan Tsiang，1751，in 14 Kiuen， accordng to the 214 radicals；the 六書通 by 閺架伋，1661，in 10 Kiuen，according to 76 finals．In these two works the old forms are quoted with references to the inscriptions，tests，etc．，where they are to be found．The latter， though less complete than the former，is more accurate；it is a wonderful monu－ ment of palæographical knowledge and patient research，the work of an entire life deroted to study．Its author published it at the age of 82 ．It has been reprinted several times，in $1718,1796,1865$ ，and these are the different editions I hare seen ；the 1796 one is the rorst．
son．Other characters，from the Twan and Siang，and occa－ sionally from the text，are also of the old style still in use， with or without additional ideographic determinatives，but no longer understood on the principles of their composition and hence blindly copied．The third category includes characters from the wings，which are obviously written according to the principles laid down by She Cliöu about 820 в．c．We shall not enter into the details，they would be most interesting， about these categories，as they would require more space than we can afford．We cannot help，however，quoting two or three examples of the oldest written words．

38．So 愠 heng，constant，continual，which in the Ku wen text of the $Y h$ was written by a group of two characters which transcribed in modern caligraphy would be 互巧．${ }^{1}$ Reading the two characters according to the orthographical principles of the old $K u$－wen，we expect，by their disposition side by side，a compound word to be read from left to right， and we find 互 Keng IJ Kiao，which is obviously the same as the modern expression heng lizu 沍 久，having the same meaning．${ }^{2}$ In the Twan and Siang we find two forms of the same early group，but of which the component parts were no longer understood，as shown by the blind interpretation given to their strokes．${ }^{3}$

Again，願 $I$＇the chin，＇which represents two characters of the older $Y h$ ，臣 and 願；one is the heading of the 27 th chapter，the other is in the text．${ }^{4}$ We shall see in our version which spoken expression it represents．

Again 解 substitution in modern writing to the Siao Chuen

[^280]荔 whieh had been substituted for the Tu－uen 郗．${ }^{1}$ Read according to the old prineiples，the latter gives mod．Kih tsieh， and in the oldest dialects $\Pi^{\prime}$＇ich tiet（Sinieo－Annamite），or Kwik tsit（Canton），whieh are no longer used，but for whieh we find the modern equivalent 解談 Kiuli shet，Pekinese Chieh－shuo，to explain，to unloose．

If space could be given to this question，many proofs eould be fortheoming to show that Wen Wang has entirely misunderstood the materials he had in hand．For example， he has misunderstood an old group form of 姑＇a girl＇（44th Kwa）for 姤 copulatio；but，as this subject would have been unfit for diseussion，he has been unable to follow this course in his arrangement of the text，so that the whole chapter，whieh deseribes the oceupations of a girl，presents now in the modern interpretation an amount of nonsense， seldom found to so ludierous an extent．

39．Tradition has been kept of the modifications（transcribed in modern eharaeter），introdueed by Wen Wang to twenty－ fire of the sixty－four headings of the ehapters．${ }^{2}$ IIe has put at the Kiwa 5．需 instead of 涱；9．小畜instead of 毒㽞； 15．誐 instead of 策；18．䁷 instead of 蜀；23．䖝 instead of 僕；25．天 妄 instead of 母 亡；26．大 都 instead of畣畜；29．坎 instead of 蕉；31．咸 instead of 諴；33．遂 instead of 遂；37．家 人 instead of 昔家 人；40．解 instead of 荔；41．損 instead of 員；46．升 instead of 稱； 51．震 instead of 逢；52．艮 instead of 狠；59．渙 instead of 衂．

Besides these seventeen，there are five single headings，有，㗇，欽，規，夜，and three double 岑 䨛，林 䚛，馬 徒，of which Wen Wang＇s substitutes have not been traditionally kept，but whieh ean be deteeted without great diffieulty，by a elose study of the book．

As these headings are the objeets of the ehapters，it is easy to eoneeive how important it is to know them with precision，

[^281]for the understanding of the rows of characters by which they are followed．

40．Remains of the early commentators ${ }^{1}$ show unmistakably a period intermediary between the characters as they have been transcribed into the actual style of writing and the oldest one，fully justifying what we have said of the gradual modification of the characters，according to the views of the interpreters at the successive transcriptions from the old $K u-w e n$ text into the Siao Chuen style，and from this into the modern Kiai Shu．

In the ordinary edition we find that thirty－one headings are the object of special remarks；thirteen are indicated as sham representatives and eighteen are to be taken with a special meaning．

It is in this passage and transcription from the Siao－Chuen to the modern style，that in the abscnce of the $\Pi u$－wen text， we shall be able in numerous cases to check the interprcta－ tion supported by the modern characters．Substitution of characters，as 柅 for 䥤，and 無for 无，or 湃for 沛 arc not unimportant，but such as 惕＇respectful＇for 昌易＇pelvis＇ modifies entirely the possible meaning．And is not the same thing to be said of 豐，遜，袽，䋈，㫿，substituted to 嶇，秷，筎，䘫，目目，etc．，etc．${ }^{2}$

41．We find in the dictionary of the＂Original characters of the thirteen kings，＂Shih san King Pön tze十三巠本字 sect．of Yh King，some changes of characters，as these：幹 instead of 畭；磪 instead of 确；簪 instead of 无；頃 instead of 臣；肺 instead of 荃；桴 instead of 停．${ }^{3}$

Or characters as these：磐，適，蒲，晳，裏，颙，趾，腊，嗟，which are but the sham representatives of the older ones．

According to the notes of the ordinary editions of the $Y / h$ ， we find no less than 77 in the text and 102 in the Twan，
${ }^{1}$ Cf．the 周 易，annotated by 黄 頴 of the Tsin period．Vid．南 海夥 志，K． 25.
${ }^{2}$ Vid．Luh－shu－fön－luy，svv．
${ }^{3}$ So 苂 ${ }^{(10}$ is for 掊．Cf．Min tsi K゙i，Luh shu l＇ung，K．iv．，f．51．

Siang and Wen Yen embodied with the text, of characters which stand for others, and over 300 which are translated with unusual meanings. Many of the latter show only how forced were the interpretations supposed by the editors. It is instructive to point out these facts as a warning for those who should be inclined to accept any version, which has not been prepared by the necessary paloographical and linguistic researches on the text ; a scientific preparation of which the Chinese interpreters in their attempts, and the European as well, though less excusable, do not seem to have had the slightest idea.
(To be continued in the next volume.)

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## ROYAL ASIATIC SOCIETY.

## PROCEEDINGS

OF

## THE FIFTY-NINTH

ANNIVERSARY MEETING OF THE SOCIETY,
Held on the 15th of Mray, 1882,

Sir T. EDWARD COLEBROOKE, Bart., M.P.,

PRESIDENT, IN THE CRAIR.

Members.-The Council of the Royal Asiatic Society have to report to the Members of the Society that, since the last Anniversary Meeting, held in the Society's House on Monday, May 30, 1881, there has been the following change in, and addition to, the Members of the Society.
They have to announce with regret the loss by Death, of their Resident Members-

Sir Erskine Perry, K.C.B.
J. Muir, Esq., C.I.E., D.C.L., LL.D.

Professor Dowson.
Professor Ameuney.
S. E. Rolland, Esq.
T. Bramsen, Esq.

Mrs. Chambers.
Alexander Faulkner, Esq.
of their Non-Resident Members,
The Count de Nöer.
D. T. Edmards, Esq.
of their Honorary Members,
Professor TVassili Grigorieff.
Professor Benfey.

## and of their Honorary Foreign Member,

 Professor Bernhard Dorn.On the other hand, they have much pleasure in announcing that they bave elected as Resident Members,

The Rev. H. Bentinck Hawkins.
G. Bertin, Esq.
W. Trevor Roper, Esq.

The Rev. Isaac 'Taylor, M.A.
Hyde Clarke, Esq.
St. Clair Baddeley, Esq.
Joseph Seel, Esq.
C. J. Tarring, Esq.

Bunyiu Nanjio, Eisq.
Alexander Grant, Esq.
Thomas Seel, Esq.
B. V. Head, Esq.

Joseph Haynes, Esq.
T. G. Pinches, Esq.

Arthur Lillie, Esq.
H. C. Kay, Esq.
F. F. Arbuthnot, Esq.

Arthur H. MacDonnell, Esq.
J. W. Maearthy, Esq.

The Duke of Buckingham (late Governor of Madras).
The Marquess of Hartington, M.P. (Secretary of State for India).
The Earl of Crawford and Balcarres.
W. S. Blunt, Esq.

The Lady Anne Isabella Blunt.
Thomas Wise, M.D.
and as Non-Resident Members,
The Rev. W. Turnbull Pilter.
General Palma di Cesnola.
J. S. Tremlett, Esq.
W. Theobald, Esq.

Sir Harry Parkes, K.C.B., II.B.M. Min. Plen. Japan.
M. Joseph IIalévy.

Christopher Gardncr, Esq., H.B.M. Consul, China.
Alexander Finn, Esq., H.B. MI. Vice-Consul, Teherân.
E. Tyrrell Leith, Esq., Barrister-at-Law, Bombay.

Rev. C. King, Ahmednagar.
W. Hoey, Esq.
J. Farques, Esq., Teherîn.

Major Thompson, Bombay Staff Corps.
Rev. J. Drew Bate, Ahmednagar.
Mackenzio Wallace, Esq.
The Right Hon. Sir Austen II. Layard, G.C.B., LL.D.
Gilmour McCorkell, Esq.
K. 'T. Best, Esq.

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The Rev. R. Bruee.
Hormuzd Rassam, Esq.
Lient.-Colonel Prideaux.
Colonel Cadell, V.C.
Charles Pownall, Esq.
George Mughes, Esq.
W. Dupuis, Esq., II.B.M. Consul, Teneriffe.
C. J. Connell, Lsq., Beugal C.S.
Colonel W. Gwyme Hughes, Arrakan.
Capt. Edmund Talbot.
P. Mukerji, Esq.
R. P. Siuha, Esq.
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The Society has, also, clected as Honorary Mcmbers, Professor Trumply. Professor Dillmann.

The Socicty has, thercfore, elceted twenty-five Resident Members, against a loss of eight Resident Members, and thirty Non-Resident Members, against a loss of two NonResident Mcmbers ; in other words, the gain to the Society, since the last Anniversary Mceting, has been seventeen Residents, and twenty-eight Non-Residents, in all, forty-fivc.

Of the personal history of some of those whom we have lost, a few words will now be said.

Prince Frederic Christian Charles Augustus Count Nöer was the son of Frederic, brother of Christian, Duke of Schleswig-Holstein-Sönderburg-Augnstenburg, by Henrietta, daughter of Conrad Count of Danneskjold Samsoe, and sister of Lonise Duchess of Augustenburg. He was, therefore, first cousin, on both father's and mother's side, to Prince Christian, husband of the Princess Helena. The title of "Count Nöer," by which Prince Frederic was known latterly, was conferred on him by the King of Prussia in 1870.

The family of Sönderburg-Augustenburg, to which the Prince belonged, is the senior of three Ducal Families, descended from John, Duke of Holstein, brother of Frederic II., who was King of Denmark from A.D. 1534 to A.D. 1538, and, on failure of direct descendants from that Sovereign, the Crown would, under ordinary circumstances, have passed
to its representative. But the part taken by the late Duke of Augustenburg, and by his brother, in the SchleswigHolstein rising of 1848, led to the exclusion of the family from succession.

By the London Treaty of 1852 , it was provided that, on the extinction of the male line of the Royal House, Prince Christian of Schleswig-Holstein-Sönderburg-Glücksburg should succeed, and the arrangement took effect on the death of Frederic VII. in 1863.

Prince Frederic was born at Schleswig on November 16, 1830. The first eighteen years were passed, uneventfully, on his father's domain at Nöer, a village pleasantly situated on the bay of Eckenfürde, twenty muiles west of Kiel. His father was a nobleman of sporting rather than of literary tastes, who lived au grand seigneur, entertained lavishly, patronized the turf, and burdened his estate with debt, while the education of his son and heir was more or less neglected, a circumstance bitterly regretted by the Prince in after-life. Meanwhile, among the German populations of Schleswig-Holstein an agitation was in progress, for separating the Duchies from the rule of Denmark and joining them, as a new State, to Germany, the outcome partly of the "German Unity" sentiment, and partly of dissatisfaction with the rule of foreigners. In an evil moment for his own interests, the Duke of Augustenburg espoused the cause of the secessionists, rejected the overturcs of the Danish Government for a peaceful solution of the difficulty, and, in April, 1848, declared for war. The Duke was joined by his brother, the Prince of Nöcr; and the latter's young son-the subject of this memoir -cast in his lot with his father and served in the ranks of the Holstciners. The seccssionists werc repcatedly worsted by the Danish troops, but the interference of Prussia and of other German States caused the contcst to be protracted. Ultimately, Prussia withdrew her troops,
and the insurgents, left to their own resources, were finally defeated at Idstad on July 26, 1850. The Duke of Augustenburg renounced all claim to succession to the throne of Denmark; Nöer was confiscated, but, ultimately, restored to the family through the intercession of Queen Victoria; and Prince Frederic and his father sentenced to perpetual banishment from Danish territory. Before, however, the insurrection had quite collapsed, Prince Frederic, satisfied of the hopelessness of the Duke's cause, and strongly disapproving of Prussian interference, quitted his home in Schleswig-Holstein, which he was not destined to revisit for fifteen years. Proceeding first to England, he journeyed thence by Cape Horn to Australia and India, risiting Madras and Calcutta, and returning to Europe by Ceylon, Cairo, Smyrna and Constantinople. His visit to the last place was an event in his life of some importance, for it was here that he first formed an acquaintance with Mr. Urquhart, the Secretary of Legation, whose views on Eastern questions greatly influenced the Princc, and quickened in him that warm sympathy with Asiatics, which was a distinguishing feature of his character. From Constantinople he joined his family, who were passing their exile at Grafenburg in Austria, and, after a few months rest, proceeded to the University of Cambridge and, in January, 1852, took up his residence as a Fellow Commoner of Trinity College. Here he devoted himself to the study, not of mathematics, which he disliked, nor of classics in the Academic sense, but literature, philosophy, and languages, especially Arabic and Sanskrit, in which he had already made fair progress, rarely mixing in society, but highly respected and honoured by the few friends who knew him. Among these may be mentioned Sir Arthur Gordon, C.M.G., now Governor of New Zealand, Montague Butler, D.D., Headmaster of Harrow, E. White Benson, D.D., Bishop of Truro, and Cyril Graham, C.M.G., late Lieut.-Governor of Grenada,
who, despite the lapse of thirty years, still vividly recall the genial courtesy, the high prineiple, and eultivated intelleet of their old assoeiate. But mueh as he valued the friendships he had formed at Cambridge, life, as an undergraduate at that University, was not congenial to him, and, in March, 1853, he proeeeded to Heidelberg, and ultimately Paris. Here he lived five years, until his mother's death in 1858, a distinguished member of the best literary society of the Second Empire, - paying yearly visits to England, where he received much kindness from the late Prinee Consort, and made the aequaintanee of the leading statesmen and savants of the day. It was during this period that he published under the pseudonym of Onomander a book entitled "Altes und Neues aus den Länden des Ostens," in two vols., giving an aecount of his travels in South India. The year 1859 he spent in Italy, and, in 1860, he made London his headquarters for three years, pursuing his Sanskrit studies with his friend and teacher, Prof. Goldstüeker. In 1864, after the second marriage of his father to an American lady, now the wife of Count Waldersee, the reeently appointed Adlatus to Count Moltke, he made a second journey to India by St. Helena and the Cape. The year 1865 was spent by the Prince in travelling through the Madras Presideney, when the tidings reaehed him of his father's death, and he returned to take possession of the estate at Nörer, whieh he had not visited sinee 1849. Having plaeed the domain, which then had little charm for him, in the hands of a faithful steward, he made a third journey to India, wandering on this oecasion through the North as well as the South, disputing with Pandits at Benares, with Jain Priests from the Deeean, with Sikh Granthis of the Golden Temple at Amritsar, by the Pool of Immortality, playfully twitting the half-learned Brahmans of Lahore and Sirinagar, and discussing abstruse questions of Muhammedan Law with the Maulavis of Agra, Dehli and Peshawar. From the last-
named town he began to retrace his stcps, procceding leisurely to Calcutta and, on the 30 th of March, 1869, bade adicu to India, rcturning home by Egypt, Tripoli, Damascus, and Smyrna. In 1870 he married the daughter of M. Eiscnblatt, of La Guayra in Venezuela, and, from that time forward, settled quietly in his home at Nöcr, carrying on an active literary correspondence, dispensing an unpretentious but charming hospitality to many friends, and deroting his leisure to the preparation of the work by which he will be best remembered, the Lifc of Akbar. Up to the last four months of his life, one thing was wanting to complete his happiness. The sentence of exile from Denmark, the home of his mothcr's family and the adopted home of his father's sister, the Dorrager Qucen of Denmark, was still in forcc. But in the March of last year, through the intercession, as the Prince bclieved, of Queen Victoria, the sentence was reroked, and, in October last, he had the great pleasure of passing some days among old friends in Copenhagen. "You may fancy my feelings," he wrote, in a letter of the 4th of Norember, "in again visiting the land of my fathers after an absence of over thirty years. These things can be only felt not described." He returned to Nöer, full of plans of travel and literary work to be undertaken after the completion of his Akbar. But these were destined to be unfulfilled. In the middle of December he caught a severe cold, which ultimately affected the lungs and heart, and after nine days of acute suffering borne with the utmost fortitude and patience he died on the 25 th of December, 1881, leaving a widow and tro daughters.

Of his work on Akbar, two parts, composing the first volume, were published during his life ; the MS. of the remainder, which was almost ready for the printer, has been entrusted to Prof. Hoffmann, of Kiel. Of his excellent Oriental library, the greater portion is, under the provisions of his will, to be presented to the University of Cambridge,
and the remainder to the National Library of Paris. The Prince had further the intention of bestowing some of his literary treasures on this Society, but legal difficulties may prevent the execution of this wish. Of the merits of Prince Frederic's works this is not the place to speak. Suffice it to say that Kaiser Akbar is the result of an elaborate examination of existing authorities, Persian, German, English, and Portuguese, collated and compared with scholarlike and conscientious care, and has already received high praise in Germany. But, apart from his writings, the Prince deserves a place in our records as an enthusiastic Orientalist, and a warm friend of India. His death, in his fifty-second year, is a loss to this Society not readily to be forgotten, and, in the memory of many friends, Christian, Hindu and Muham-medan-"quidquid ex illo amavimus, quidquid mirati sumus, manet mansurumque est."

Sir Erskine Perry, for many years recently a member of the Indian Council, was the son of the late Mr. James Perry, of the Morning Chronicle. He was born in 1806, and was educated, first at the Charter House, and then at Trinity College, Cambridge, where he graduated B.A. in 1828. Having become a Member of the Inner Temple, he worked hard for two years and a half in the chambers of the late Mr. Justice Patteson, but, taking a dislike to the profession of the Law, he, at that time, declined to be called to the Bar. Proceeding, in the next year, to Munich, he entcred the University there, remaining there about two years. On his return to England in 1831, he took an active part in the Reform agitation of the period, and, having purehased a share in the Examiner, beeame Honorary Secretary of the National Political Union of London.

After the passing of the Reform Act, Mr. Pcrry formed "The Parliamentary Candidate Soeiety," which was iustituted to support Reform by promoting the return of fit and proper Members of Parliament. Having unsuccessfully contested
the seat for the newly enfranchised Borough of Chatham, he, in 1834, married Louisa, daughter of Mr. MeElhiney, and was called to the Bar in the following year. He, then, bccame a Law Reporter, and published seven vols. of Reports known as "Nerille and Perry," and "Pcrry and Davison." In 1841 he lost the greater part of his fortune by the failure of a Bank, and was, hence, induced to apply for a Judgeship in the Supreme Court of Bombay, where he ultimatcly attained the post of Chicf Justice, returning, finally, to England in 18.52. Before he left India, he had been for ten years President of the Indian Board of Education, a service which was dcemed so satisfactory that the native community subscribed £j000 as a testimonial to him on his leaving India. This sum mas, at his request, devoted to the establishment of a Perry Professorship of Law.

Some of Sir Erskine Perry's leisure hours were occupied in literary pursuits, of which his translation of Savigny's "Recht des Besitzes," his letter to Lord Campbell on "Law Reform," and his "Oriental Cases" are examples. Unsuccessfully contesting Liverpool in 1853, he was returned for Devonport in the Liberal interest in 1854, a seat he retained till 1859, when he became a member of the Council of India, an office he retained till within the last three months. His first wife having died in 1811, he married in 1855., Elizabeth Margaret, daughter of Sir J. N. B. Johnstone, M.P., and the sister of the first Lord Derwent.

Dr. John Muir, C.I.E., D.C.L., LL.D., who will long be remembered as one of the prominent Sanskrit scholars of the day, died, at his residence in Edinburgh, on March 7th in the F3rd year of his age. Dr. Muir was born at Glasgow, and received his early education there, attending, subsequently, the College at Haileybury. In 1829, he passed through the College of Fort William, Calcutta, with distinction, and was, shortly afterwards, appointed Assistant Secretary to the Board of Revenue at Allahabad. Thence, he obtained
the appointment of Commissioner for the investigation of the claims for the holding of land rent-free in Meerut. As singularly proficient in his knowledge of the Sanskrit Language, Dr. Muir was, naturally, appointed the first Principal of the Sanskrit College at Benares, when Mr. Thomason, then Lieut.-Governor of the N. W. Provinces, succeeded in amalgamating under one Anglo-Indian College the English and Sanskrit branches of study. This post, however, he held for one year only, yet sufficiently long to get the College into good working order. After this, he returned to the Judicial branch of the Service, and was, for some years, the Civil and Sessions Judge at Futtehpore. In 1854, he retired from the service and, subsequently, resided chiefly in Edinburgh. In the Scottish Metropolis, Dr. Muir gave much time and exhibited great zeal in the improvement of the Universities of his northern and Native land, during the same period, founding the Chair of Sanskrit and Comparative Philology in the University of Edinburgh, of which Prof. Aufrecht was the first and Prof. Eggeling is the present Professor. He was, also, mainly instrumental in establishing the Shaw Fellowship for Moral Philosophy, in memory of his relation, Sir James Shaw, while he, also, instituted the Muir Lectures on Comparative Religion, which have been, up to this time, delivered by Professor Fairbairn of Bradford. Dr. Muir was also a member of the last Scotch Universities Commission.

It is, however, as a Sanskrit scholar, that he will, no doubt, be best remembered. While yet employed on active scrvice in India, between 1829 and 1853, he found time to publish, at Calcutta in 1850, "A short life of the Apostle Paul, with a Summary of Christian Doctrine," in Sanskrit verse, an admirable following up of Dr. W. H. Mill's "Christa-Sangitâ or History of Christ": while, in 1852 and 1854 , he published the first and second parts of the "Mata-Parikshâ or Examination of Religions" (also, in Sanskrit verse), the first
portion containing an examination of the Hindu Shastras, while the sccond forms an exposition of the Evidences of Christianity for Hindus. A part of this work was printed at Calcutta in 1840 .

Other and somewhat shorter works by Dr. John Muir are "The Fountain of the Water of Intclligence, a Description of England," in Sanskrit. Calcutta, 1839.
" A Sketch of the IIstory of India, in Sanskrit Verse. Calcutta, 1840.
"Brief Lectures on Mental Philosophy, etc., delivered in Sanskrit to the Students of Sanskrit at Benares." Allahabad, 1843.

While engaged in these studies, Dr. Muir was one of the first to perceive and to point out the nccessity of a knowledge of the $V$ edas for the right understanding of the devclopment of Religion in India, in proof of which belief it is worthy of record that, while in India, he offered a prize for the first Edition of the Text of Sâyanâcharya.

On his return to England, he became an active supporter and contributor to Sanskrit scholarship, beginning by the offer of prizes for Essays on Indian Philosophy and Religion, with the view of helping the conversion of Hindus to Christianity. His own special studies were chiefly concentrated on the Vedas-on which great subject he published four parts between 1858 and 1863, with a second edition in five vols. betreen 1868 and 1870 -the two bearing the general titles of "Original Sanskrit Texts on the origin and history of the People of India, their Religion and Institutions" a work alike excellent and useful, consisting, as it does, of a collection, classification, and translation of the most important passages from the published texts of the ancient Literature of India. It is, indeed, greatly due to him that Scholars, Missionaries, and the public, generally, have gained a far more correct idea of Ancient India than could be found in any works, published before the great Edition of the

Vedas, on which Prof. Max Müller spent twenty-seren years.

The value of this labour can hardly be orer-rated, especially when it is considered how wide a field of research it really covers. Thus the first volume discusses the legendary accounts of the origin of Caste; the second, the primitive home of the Hindus; the third, the opinions of Hindu writers on the Vedas; the fourth, the contrast between the Vedic and the later Hindu Theology; while the fifth, published in 1870, deals with the Cosmological and Mythological conceptions of the Indians of the Vedic age.

To the Journal of the Bengal Asiatic Society he contributed two papers, the first in rol. xir. pt. 2, 1845, on the genuine character of the Horâ Sastra, as regards the use of Greek terms; and the second, a translation of Dr. Rudolph Roth's papers " Zur litteratur und geschichte des Weda" (printed at Stuttgard in 1846), the latter being a paper of more especial interest in that it shows the commencement of works by such scholars as Drs. Rieu and Trithen, which have, subsequently, borne exceedingly good fruit.

To the Journal of this Society Dr. Muir has contributed many valuable papers, of which the following is a complete list:-

1. Verses from the Parva-Darsana-Sangraha-VishnuPurana and Ramayana, to illustrate the freedom of thought in ancient India, vol. xix. o.s.
2. Legends from the Satapatha Brahmana, vol. xx. o.s.
3. On Manu, the Progenitor of the Aryan Indians, as represented in the Hymns of the Rig-Veda, vol. xx. o.s.
4. Does the Vaiseshika Philosophy acknowledge a Divinity or not? rol. xx. o.s.
5. Contributions to the knowledge of a Vedic Theology and Mythology, rol. i. N.s.
6. Yama and the Doctrine of a Future Lifc, according to the Rig-, Yajur-, and Atharva-Vcdas, vol. i. x.s.
7. Progress of the Vedic Religion towards abstract conceptions of the Deity, vol. i. n.s.
8. Coutributions to a knowledge of the Vedic Theogony and Mythology, vol. ii. N.s.
9. Miscellancous Hymns from the Rig and Atharva Veda, vol. ii. N.s.
10. On the Relations of the Priests to the classes of Society in the Vedic Age, vol. ii. న..s.
11. On the Interpretation of the Veda, rol. ii. n.s.

But, besides these more learned works, Dr. Muir contributed to that admirable periodical, the Indian Antiquary, a long series of papers, founded mainly on his own profound knowledge of the Sacred Language of India, the Sanskrit, most of these papers, or, as he preferred to call them, "Metrical Translations," having for their chief object to show how high was the moral sense of the compilers of the Mahabharata. Inter alia, he gives a metrical version of Parjanya, the Rain God, as represented in the hymns of the Rig Veda, vol. ii. 1873, with many others in subsequent volumes, which he has finally brought together into one volume, published in Trübner's "Oriental Series" under the title of "Metrical Translations from Sanskrit writers: with an introduction, prose versions, and parallel passages from classical authors," London, 1879. Since that time, till within a few months of his lamented death, Dr. Muir has continued to add to the pages of the "Indian Antiquary" from the papers bearing on the same general subject. In these later works (he mould perhaps have hardly called them by this name) Dr. Muir's chief object seems to have been to supply illustrations, in however humble a may, for the student of the comparative Science of Religion. In conclusion, it should be ever remembered that Dr. Muir was far other than a mere scholar or man of learning, and that he did not confine his studies or interest to India or Indian literature. He was ever ready
to help on or to support young students by grants of books or of money, and showed his warm sympathy with many a philanthropic enterprize by liberally contributing to its funds. His name will be long remembered with gratitude by a far larger circle of men whom he had endeared to him by his genial simplicity of manner and character, and by his generous helpfulness, than by the scholars who resort for instruction to the rich stores of Sanskrit scholarship collected in his works.

In the person of Professor Dorson the Society has lost a valuable member, and Oriental studies a sound scholar ; what he knew, he knew thoroughly, and his knowledge was always at the service of his friends, his speciality being, probably, Indian Palæography.

Mr. Dowson, who died on August 23, 1881, was born at Uxbridge in 1820. At the age of sixteen he came to London, as an assistant, in this Society, to his uncle, Mr. Edwin Norris, the then Secretary, who, noticing his aptitude in acquiring languages, induced him to take up the study of those of the East. In 1855, he was appointed Professor of Hindustani in University College, London, and, in the same year, he became Professor at the Staff College, Sandhurst, then just commencing its valuable duties-an office he held till 187\%. Prof. Dowson was an indefatigable writer-some of the results of his various labours being, the translation of the Ikhwan-us-Safa, in 1869, the Arabic Philosophical Cyclopædia of the "Brotherhood of Purity ;" a Grammar of Urdu or Hindustani, 1872; and the chief editing of "The History of India, as told by its own Historians," a work commenced by the late Sir H. M. Elliot, K.C.B., who, at his carly death, left bchind him a mass of documentary matter, which he had collected and hoped himself to publish. This work, which now extends to cight volumes, shows a vast amount of labour and research, and is, indecd, the only reliable one for the history of India during the Muhammedan period.

In 1879 Prof. Dowson compiled for Trübner's "Oriental Series" a "Classieal Dietionary of Mindu Mythology and Religion, Geography and Literature," a work intended, on Orieutal subjects, to cover similar ground to that Dr. Smith's Classical Dietionaries have covered for Greek and Roman Literature-his last work being a very important artiele on Indian Inseriptions for the ninth edition of the Eneyelopredia Britanniea, which he only lived just long enough to complete. Prof. Dowson contributed, also, many able and weighty reviews on Indian subjects to the Saturday Revierc, and to other periodical papers. He was a self-taught seholar and a self-made man-and will be long missed by his fellow labourers in the same branehes of study.

Mi: W. Bramsen, whom we deplore as eut off, at a very early age, from active work, had, during his brief life, already shown how much was to be expeeted from him, had it been prolonged-foremost, as he was, unquestionably, among the small number of genuine Japanese Seholars.

Mr. Bramsen was born at Copenhagen, where he took his University degree in the ordinary course. After this, being desirous of groing abroad, he offered his services to the Great Northern Telegraph Company, and in this capacity went to the East in the Danish Man-of-War, the Nordenskiold, about the year 1870 , and was for some time stationed at Shanghai ; having, however, acquired a taste for Japan and its people, he gave up his previous business, and came to Yokohama in 1873, where, for several months, he deroted himself to the thorough mastery of the Japanese language, of which, not long subsequently, he might justly have elaimed to be one of the best and highest expositors. In pursuance of his special taste, he obtained an appointment in the Japanese Telegraph service, where he had to rely entirely on his own knowledge of the local dialects. In the spring of 1875 , when the Mitsu Bishi Co. started their Shanghai Mail Line, and were anxious to increase their foreign staff, Mr. Bramsen
secured an appointment in their Head Offiee, and, rapidly rising in this profession, became, in the spring of 1879 , the acting Chief Direetor. In August, 1880, Mr. Bransen returned to Europe, to carry out a long-eherished wish to study Law in the English Metropolis, with the hope of returning in a few years to Japan, and of there making due use of his legal attainments. But, unfortunately, his hopes were doomed to a sudden failure; for after a few months only of legal study, he died on Dee. 8, 1881, in the thirtyfirst year of his life.

Mr. Bramsen's intimate aequaintanee with the Japanese written and spoken language, with his extensive general linguistie knowledge, enabled him to write with authority on the vexed question of transliteration-his papers, on this subject, which have appeared from time to time, in the Yokohama papers, being well worthy of attention, as the writing of a man who was thoroughly painstaking in all his work.

Besides other minor work-such as his "Comparative Tables of Japanese Weights and Measures," ete.,-his Japanese Chronologieal Tables, published in 1880, are a standing monument of his knowledge, unwearied industry and love of labour ; the origin of this work being probably due to his passionate attaehment to Numismatic Science. When Mr. Bramsen left Japan, he possessed one of the finest eollections of Japanese Coins, of whieh, at the time of his death, he was engaged in preparing a descriptive and historical eatalogue. The first portion of this eatalogue, fully illustrated, has been already published in Japan, in the " Mittheilungen der Deutseher Gesellsehaft für Natur- und Völkerkunde Ost-Asiens," Aug. 1880, and reprinted, under the title "Coins of Japan, Part I. The Copper, Lead, and Iron Coins issued by the Central Government." There is, also, a French edition of the same work. Mr. Bramsen also read a paper before the Numismatic Society of London,
entitled "The Iron Coinage of Japan," which will be shortly published in their Chronicle.

In Dr. Theodor Benfey, an Honorary Member of the Socicty, Oricutal learning has lost one of its ablest expositors, and, taken all round, one of the best Sanskrit scholars, who ever lived. Indecd, it may be doubted, with all deference to other distinguished men, who have worked in the same class of studies, if there be any man, who has more advanced the study of the language and literature of India, than Dr. Benfey. It has been given to some, notably to Prof. Max Müller, to edit for us vast collections of MSS. directly connected with this subject-and all praise is due to him and to others, who have had the opportunity of working in this field: but, it has been Prof. Benfey's especial merit that he corered the whole area, and, this, before Prof. Max Müller commenced the labours for which he is justly celebrated.

Prof. Benfey was born in 1809, being of Jewish descent. He was educated at the Gymnasium of Göttingen, and, after studying, subsequently, in the Universities of Göttingen and Munich, was appointed Professor at the former place in 1834, where he continued working and lecturing up to his death. His first important work was his "Griechisches Würtzel Lexicon," published in two volumes in 1839-42a book of the highest value at the time it was published, as showing how much could be done by careful research into Comparative Philology. Of course, since then so much has been done, that this early effort has, in some sense, fallen into desuetude, but it ought not to be forgotten that Benfey, in this publication, distinctly led the way to other and, no doubt, more complete results. His book was that of a pioneer, in, at that period, a nearly new and untrodden path ; and the criticisms it naturally evoked were, perhaps, as valuable for the progress of research, as the book to which-or against which-they were directed. The study
of Comparative Greek Philology has now advanced so far, that Benfey's book has little more than historical interest; but those, who will take the trouble of examining its pages, will be surprised to see, of how many accepted theories and etymologies only too often attributed to other writers Prof. Benfey was the real author. It is, perhaps, not easy to say who first suggested, that riginti, єiккобь, and rinsati, are really the same word, or to state who first dealt with such words scientifically. But, among the earlier scholars, it is certain, that Benfey made any number of suggestions, which have been since accredited to other and less eminent scholars. But few men, perhaps, have cared so little for fame of this kind.

To this early period in Prof. Benfey's career belongs his elaborate article on India, in Ersch und Grüler's Encyclopüdie, which, like the Würtzel-Lexicon, is now, to some extent, antiquated, though it contains many things worthy of remembrance. Later in life, Benfey was mainly instrumental in bringing about that revival of Sanskrit Philo$\log y$, which began with the study of the Vedas. Thus, in 1848, he published his text, translation, and glossary of the Sama-Veda, and, at the same early period, a complete translation of the first book of the Rig-Veda. He seems, then, to have paused for a while, probably because he saw that no real progress could be made in Vedic studies, before the text of the Rig-Veda, and, above all, before Sayana's complete commentary on the Rig-Veda, had been madc known to students. In the mean time, he devoted himself to the publication of scveral Sanskrit Grammars, in which he showed a mastery of Panini, quite unusual at that period. He, also, published a Sanskrit Chrestomathy, Dietionary aud other useful works.

A little later he astonished the world by a discovery in a totally new line of rescarch, viz. his Pantchatantra, in which he cstablished, on a sound basis, not only the Indian
origin of many European fables, but, what was, perhaps, of higher interest, the Buddhist origin of those of India. This work, alone, would have placed its author in the formost rank of European scholars. With Benfey, however, it only represented one out of many victories in a life-long intellectual campaign. We camnot dwell on all his works: but we may call attention to his contributions to the knowledge of Zend, and to his scholar-like labours on the Cunciform Inscriptions. Another truly monumental work, we must mention, his "History of the Science of Language and Oriental Philology in Germany" (1869)—showing, as this does, what can be achieved by the industry and genius of one man, if only he has a purpose in life and possesses the unselfish derotion of a scholar. The concluding days of Dr. Benfey's life were again devoted to Vedic studies, which he resumed with the ardour of youth and the experience of a vetcran general.

The results of his work were published from year to year in the Transactions of the Royal Socicty of Göttingen and elsewhere, and as an idea of the minuteness of his studies, it may be mentioned that his treatises on the prolongation of vowels in the Rig-Yeda occupy more than 400 pages 4to. Though this might secm an excess in accuracy, it shows what might hare been expected from his long-promised Tedic Grammar ; the future publication of which will, we fear, be scarcely possible unless the materials he has been so long collecting have been worked up by himself.

In conclusion, it is right to add that, during his whole life, Prof. Benfey bore the highest character among Oriental scholars: he seemed to care for nothing but work, true honest work. Through his long literary life, though controversies necessarily would sometimes arise, no one ever breathed a word against Benfey's independence, justice and straightforwardness. He never belonged to any sect ; Science being to him a sacred thing, wherein no personal interests were
permitted to intrude ; thus, in his few and rare controversies, he invariably treated his opponents with respect.

The following list is believed to be a tolerably complete collection of the works actually published by Prof. Benfey, though there may easily be some others latent.

1. Ueber die Monatsnamen einiger alten Völker, insbesondere der Perser, Cappadocier, Juden und Syrer. 8vo. Berl. 1836.
2. Terenz Komödien im Versmass der Urschrift übersetzt. 9 parts. 16mo. Stuttgart, 1837.
3. Ueber das verhaltniss der Ægyptischen Sprache zum Semitischen Sprachstamm. 8vo. Leipzig, 1844.
4. Die Persischen Keilinschriften mit Uebersetzung und Glossar. 8vo. Leipzig, 1847.
5. Die Hymnen des Sâma-Veda. Herausgegeben und mit Glossar versehen. 4to. Leipzig, 1848.
6. Handbuch der Sanskrit-sprache. I. Abth. Volstandiges grammatik der Sanskrit-sprache. Svo. Leipz. 1852. II. Abth. Chrestomathie aus Sanskrit-Werken. 2 Bände. Leipzig, 1854.
7. Kurze Sanskrit-Grammatik zum Gebrauch für anfänger. 8vo. Leipzig, 1852.
8. A Practical Grammar of the Sanskrit Language for the use of early students. 8vo. Berl. 1863.
9. Pantschatantra - Fünf bucher Indischer Fabeln, Märchen und Erzahlungen. Aus dem Sanskrit übersctzt. 2 Bände. 8vo. Leipzig, 1859.
10. A Practical Grammar of the Sanskrit Language. 2nd Ed. 8vo. Lond. 1866.
11. $\Lambda$ Sanskrit-English Dictionary with reference to the best Editions of Sanskrit authors. Svo. London, 1866.
12. Ueber einige Plural-bildungen des Indo-Germanischen Verbum. 4to. Göttingen, 1867.
13. Geschichte der Sprachwissenschaft und Oriental-
isehen Philologie in Deutsehland seit den Anfang des xvi. Jahrhunderts. Svo. München, 1869.
14. Ueber die Entstehung und die Formen des IndoGermanisehen Optativ. 4to. Göttingen, 1871.

Besides these fourteen separate artieles or essays by him in his "Vedica und Verwandten," the following papers will be found in the Abhandlungen der Königlich Gesellsehaft der Wissenschaften zu Göttingen :

1. Alt-Persisch Mazda $=$ Zendisch Mazdáriseh $=$ Sansk. Nédhas. Abh. Band. xxiii. $18 \% 8$.
2. Einige Derivata des Indo-Germanischen Verbums ambh =Sanskr. Nabh-Ibid.
3. Die quantitäts-verschiedenheiten in der Samhita und Padatexten. 4. Abhandlung in 3. Abtheilungen. Abh. Band. xxv. 1879.
4. With the same title as above: in 5. Abhandlung in 2. Abtheilungen. Abh. Band. xxvi. 1880.
5. Ucber einige Wörter mit dem Bind-vocal i. Abh. Band. xxiv. 18 T9.
6. Behandlung des auslaüternden $a$ in ná "wie" und ná "nicht" in Rig Veda. Abh. Baud. xxv.
7. Die quantitäts-verschiedenheiten, ete., etc. 6. Abh. 1. Abth. Abh. Band xxvii. 1881.
8. Under same title as No. 6. Abh. Band. xxvii.

Prof. Vassily Vassiliecich Grigorief, an Honorary Member of this Socicty, was a scholar well known and highly appreciated in Western Europe. Grigorief, born at St. Petersburg in 1816, while yet a student in the Uuiversity of that city, translated from the Persian, a "History of the Mongols." In 1836, he obtained a post in the Asiatic Department of the Ministry of Foreign Affairs, and, soon after, entered the service of the University as a Teacher of Persian. In 1864, he was appointed to the Head of the Censorship, a post he held till 1874, and, in the same year, he visited England as the Russian Delegate to the Second Congress of Orientalists. In

1875, he was elected Dean of the Faculty of Oriental Languages in the University-his knowledge of these tongues having been greatly increased during his residence, in an official capacity, at Orenberg, between 1851 and 1863. Two years later he acted as President of the Third Congress, which met at St. Petersburg, and his courtesy to the strangers, who visited the capital of Russia, on that occasion, will not easily be forgotten by those, who had the pleasure of experiencing it. M. Grigorief wrote chiefly in Russ, which is so far unfortunate, as this language is so little known beyond the frontiers of the Empire itself-but, among his works, may be mentioned "The Tsars of the Cimmerian Bosphorus," St. Petersb. 1851 ; "Some Events in Bokhara, Khokhand and Kashgar," Casan, 1861 ; an Academical disquisition ou "The Charters given to the Russian Clergy by the Khans of the Golden Horde," Moscow, 1842 ; "The Site of Sarai," St. Petersb. 1845. He was, also, a large contributor to the pages of periodical literature-and to the "Transactions" of learned Societies. At one time, too, he was Editor of the "Journal of the Ministry of the Interior" and of the "Official Messenger."

Of scholars and others, not Members of the Society, but who have some clain to be noticed here, for their labours in Oriental investigations, MI. Adrien Prevost de Longpérier claims the first place. M. de Longpérier, who died on January 14, was born in Paris on September 21st, 1816, and was cducated in the City of Meaux (where he lived), entirely by his father, a man of remarkable ability. Early in life, he showed an especial love for Archeology, and, while yet quite a youth, had made and described for himself a very considerablo collection of coins. In 1836, he was admitted as supernumerary into the "Cabinet des Médailles" of the "Bibliothèque," where he remained, till he attained the still higher position of "Conservateur Adjoint des Antiques" in the

Louvre. He was, at the same time, speeially deputed to look after all things Oriental. In 1848, he was named Keeper of the Seulptures, ete., a post he held, till, in 1868, he was compelled, through ill health, to give up an oeeupation, which was in every way congenial to his tastes, and one, too, in whieh he had done very good serviee to the Freneh Government and people. It may be added that, early in life, he beeame a member of the "Aeadémie des Inseriptions et du Belles Lettres," of the "Société Asiatique," of the "Société Nationale des Antiquaires de France" (to whieh he was admitted when only twenty years of age), and of numerous other Soeieties.
M. de Longpérier's researehes extended, as is well known, into almost every braueh of Arehæology, Numismaties having been from first to last, perhaps, the one subjeet dearest to his own heart: thus, at intervals, he published eatalogues of the well-known Greek, Roman, and medixval eollections of J. Dassy, Manoneourt, and Rousseau, containing, in many eases, original and not previously suggested identifieations. Henee, probably, he was led to his later study of Oriental Numismaties, in whieh he was naturally mueh aided by his previous knowledge of Arabic and of other Eastern languages.
His early serviee in the "Cabinet des Médailles" had familiarized him with almost all elasses of figured monuments; hence, when he went to the Louvre, he took up warmly the study of the then reeently discovered Assyrian monuments, of which he gave a brief but able notiee in 1848 . Turning, at the same time, his attention to the deeipherment of the Cuneiform inseriptions engraven on these monuments, he is believed to have been the first to diseern the name of a king, a diseovery of mueh importance in the subsequent study of Assyrian Epigraphy. M. de Longpérier, also, edited two other seetions of Antiquarian Seience, which happened under his general eare,
namely, "Notice des Monuments Mexicanes et Péruviens exposés dans les galleries des Antiquités Americaines" (1850), and "Notice des bronzes antiques exposés dans les galleries du Musée Impérial du Louvre" (1868).

It need hardly be added that M. de Longpérier was a ready writer in a large number of Archæological publications, more especially in the "Revue Numismatique," and in the "Revue Archéologique," of which he was, for many years, one of the chief Directors, and in the "Memoires de la Société des Antiquaircs de France," the "Athéneum Français," and the "Annales de l'Institut Archéol. de Rome;" he made, also, several important communications to the "Comptes rendus" of the Académie des Inscriptions et du Belles Lettres, some of which, during the last year, were dictated by him from the bed of sickness he was not destined to leave. His principal separate publications were, "Sur la Numismatique des Rois Sassanides," 1840 and 1854, and "Le Musée Napoleon III. choix de Monuments Antiques," 1864-74. In 1877, M. de Longpérier was appointed by the Government to superintend the "Exposition rétrospective" of the "Palais du Trocadero" at the "Exposition" of that year, an office he fulfilled with equal success and ability. In fact, for the deciphering of a manuscript text, an inscription, or a medal, few men, from his long acquaintance with classical as well as Oriental literature, could have been found to surpass him. He lived, and he died, a consummate Antiquary.

Dr. Ludwig Krapf, a well-known missionary, died recently, at an advanced age, at Kornthal in Wurtemberg. On his table was found, after his sudden death, a proof sheet of his Suahili Dictionary, which he had corrected before he retired to what proved to be his last rest. He was not a member of this Socicty, but his name will be honoured as the first man who gave a real impetus to African discovery. He was in the field before Livingstone left Kureeman on his first journey
of discovery; and he worked to the last days of his life in the cause of Africa. Driven from Abyssinia, he settled in Mombaśa, and there published the first rumours of a great Equatorial inland sea, which at length led to the despatch of Captains Burton and Speke, and to the diseovery of the famous Lako Tanganyika, and ultimately of those of the Vietoria Nyanza, etc. Dr. Krapf fired the first great train of exploring, which culminated in the walk of Cameron across Africa and in the descent of the Congo by Stanley. He was, also, the first to announce to the learned world that all the tribes of Afriea, south of the Equator, with the exception of the Hottentot-Beschuan, spoke languages as certainly descendants of a common mother, as are the languages of the Iudo-European family. The following list gives a fair idea of his linguistic labours:-

Thus in Amharic (the language of Abyssinia), he completely revised for the British and Foreign Bible Society, the version of the whole Bible made in 1810-15, by Abu Rumi, a learned Abyssinian monk. This important task, which occupied several years, was finished in $18 \% 9$, when the second half of the New Testament was printed at St. Chris. chona, and published along with the ancient Ethiopic Version. Dr. Krapf wrote to the Bible Society:-"The Lord be praised for having permitted me to live to see this great work carried out by your Society!" He also published in Amharic Dr. Chalmers's Scripture References, a Scripture school-book, and a little book entitled "Man's Heart either God's Temple or Satan's abode."

Of the language of the great Galla nation, who stretch from Abyssinia southward to near Mombása, he prepared a Tocabulary and an Outline Grammar, which were published in London, in 1840 ; together with a translation of the whole New Testament, and of the Book of Genesis, Psalms, and other parts of the Old (part printed).

For the language of the fierce Somali tribes inhabiting the
northern corner of East Africa, he began a Vocabulary in conjunction with Mr. Isenberg, but was not able to complete it; but, for the "Enguduk Iloiçob," the language of the Masai nation, who occupy a wide territory betwcen the Wanika country around Mombasa and the Victoria Nyanza, he edited the Vocabulary compiled by Mr. Erhardt.

In the "Engutuk Eloikob," the language of the Wakwafi, a tribe connected with the Masai, but more to the south (see Mr. Last's account, Intelligencer, Nov. 1879), he compiled a Vocabulary, with specimen translations of portions of Genesis and St. John, dialogues, materials for grammar, etc., which was published at Tübingen, in 1854, and for the languages or dialects of the Teita and Usambara, countries west and south of Mombasa, he compiled a Vocabulary, which has not been printed, though copies have been sent to the C.M.S. Missionaries in East Africa.

For the Kinika, the language of the Wanika, the people among whom he and Rebmann so long labourcd, he prepared the " Beginning of a Spelling-book," with a translation of the Heidelberg Catechism, which was published at Bombay, so long ago as 1848. He also translated parts of the Ncw Tcstament (including the famous one of the Gospel of St. Luke, [also printed at Bombay, in 1848,] to which is mainly due the Christian movement in the Giriama country). He translated, also, Barth's Bible Stories, and began a Dictionary of the same language or dialect, which, we regret to say, is still unpublishcd.

For Kikamba, the language of Ukambani, a country northwest of Mombasa, which he had himself visited, he translated the Gospels of St. Matthew and St. Mark (the latter published at Tübingen, in 1850), and also a Vocabulary, appended to his "Six East African Languages," and, for Kiniassa, a language spoken far to the south on the shores of Lake Nyassa, he edited the Vocabulary and Dictionary compiled by Rebmann.

In the Sualili language he translated a part of Genesis (printed in 1847), the Order of Morning and Evening Prayer (Tiibingen, 1854), and tho whole New Testament: only parts of this have beeu printed, though each portion in MS. has beon sout to the C.M.S. East Africa Mission. Ho also propared an outline Grammar (Tübingen, 1850), aud a comploto Dietionary, the last sheets of whioh wore passing through the press when he died.

In addition to thesc works, Dr. Krapf compiled a Yocabulary of Six East Afrioan Langunges, viz. Tisuahili, Kinika, Kikamba, Kipokomo, Kihian, Kigalla, which was published at Tübingen, in 1850, a work of which he may well have been proud.

Nain Singh, or as he was officially called Pundit No. 9, a most meritorious Indian servant, and one of the most remarkable of rocent travellers, died a fow mouths since at the age of fifty-five years. He was by race a Hill man of Kschattyra easte, and, being naturally very fond of adronture, offered his services, more than 30 years ago, as native assistant to the intrepid but unfortunate Sehlagintweit; but, after serving under him for some time, the murder of his master in Kashgar left him without the opportunity of continuing the pursuits to which he had devoted himself, and he returned to his native village to pursue the monotonous and less active vocation of a schoolmaster.

From this retirement he was oalled in the year 1863 to become one of the staff of trained native explorers under the orders of the late Colonel Montgomerie of the Trigonometrical Surrey, and it was in this occupation that he earned his chief reputation.

The experience Nain Singh acquired under M. Sohlagintweit fitted him, in a peculiar sense, for employment in the most interesting department of Indian Geographical researeh, -the exploration of the Trans-Himalayan Regions; and
the success that attended his journeys beyond the great Northern boundary of India far exceeded the expectations of the able officer who had trained him specially for this work.

In 1866, Nain Singh determined the true position of Lhasa : in 1867 he visited the celebrated gold mines of Thok Talung, and seven years later, he was able to accomplish his most celebrated tour, that through the whole range of Tibet, from West to East. On this occasion, he visited the capital of the Dalai Lama, took numerous observations, and threw much fresh light on the long-disputed question whether the Sampu River, in its lower course, is, or is not, identical with the Brahmaputra. For this great effort, one alike of courage and of genius, the Royal Geographical Society justly awarded to him their gold medal, while the Indian Government granted to him a small estate, where he died towards the end of last January. Nain Singh was not a scholar ; but the great work he accomplished fully deserves a record in the pages of a Society, the sole end of which is Asiatic research. He was the greatest, if not the first, of Indian Geographical explorers : and India may well be proud of his memory. Of such stuff were the famous Chinese travellers of the fifth and seventh centuries-who then crossed the Himalayas. Let us hope his example will not be lost on his countrymen, and that they will be ready to recognize him, as Western students already gladly do-as "Primus in Indis."

During the past. year, the Council have had before them many applications for their support on various subjects. Inter alia, they were asked to take an active part in the formation of a Pali Text Socicty, but, with refcrence to this, they were of opinion, that they could not directly interfere, though the subject was onc, naturally, in which many Members of the Socicty might be expected to take an interest.

At a later period, they werc urged to impress on the Gorernment of India, the advisability of employing Mr. Bell, of Ceylon, to make further researches in the Maldive Islands, an excellcut report of his previous work there, having been laid before them by their Members, Sir William Gregory, K.C.M.G., and Mr. Gray. To this request, the Council assented, and directed their Secretary to write the necessary letters to the Secretary of State for India and to the Gorcrnor of Ceylon.

The Council have, also, had bcfore them letters from M. de Goeje and Colonel Nassau Lees, stating that MI. Spitta Bcy had undertaken to complete the publication of the Tajj-cl Aroos. The Council felt, however, that, in this matter, they could not do more than they had done, some years since, in the case of the publication of Tabari. They were willing to subscribe for a copy of the Tâj-el Aroos, but could not undertake to do more than this. It appeared, further, that, some years ago, five volumes of this work had been printed, and the Council, naturally, expressed the opinion that these should be in their hands, so that their copy might be complete, before they undertook to support any further undertaking in this matter.

The Council have, also, had before them a memorial drawn up by Sir Walter Elliot, K.C.S.I., and signed by the Professors of Sanskrit at Oxford, Cambridge, Edinburgh, and others, requesting the Indian Government to allow Mr. J. F. Fleet to be, for a time, detailed from his ordinary duties, for the purpose of editing the rast collection of Indian Inscriptions which have now been copied and are available for this purpose. The Council, generally, acquiesced in the prayer of this memorial and desired their Secretary to write to the UnderSecretary of State for India, in support of it.

The Council hare also had before them the question of the more careful preservation of their MSS. and of other raluable works in their General Library, and have come to
the following conclusions: 1. That their object in retaining possession of MSS. and other rare and valuable works is, that they may be able to lend to scholars, either personally known to them, or bringing sufficient recommendations, such of these works as they may desire to study at home ; the Council alone having the power of granting any such request. 2. That, supposing the Council be satisfied in this matter, such loan be duly entered on the Minutes, with the name of the borrower and the time during which he may retain the given book. 3. That the Secretary be required to report to the Council the request for such a loan, which may be granted on the signature of any two Members thereof-but for a period not exceeding three months,-the borrower, at the same time, acknowledging in writing his receipt of the MS. or book and giving his usual place of residence. 4. That, previously to the Anniversary of each year (by Statute fixed to be held on the third Monday in each year, if not Whit Monday), all loans are to be called in, but that a borrower pleading for an extension of the time, may, at the discretion of the Council, be permitted to keep the same for a further limited period. 5. That all MSS., or books, required to be sent out of the country, be forwarded as registered parcels, or through the Minister or Ambassador of the country to which they are to be sent.

The Council beg further to report that they have becu able to continue the Quarterly publication of their Journal, and that there is good reason to hope that this plan, at first necessarily tentative, will be continued.

The Auditors submit the following account of the Reccipts and Expenditure of the Society, which will, they hope, be considered satisfactory.

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## EXPENDITURE.



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Proceedings of Asiatic Societies.-Royal Asiatic Society-Papers.-The following papers have been read at different meetings of the Society since the last Anniversary Meeting of May 30, 1881 :-

1. On the duty Mohammedans, in British India, owe, on the principles of their own Law, to the Government of the Country. By N. B. E. Baillie, Esq., M.R.A.S. Read June 20, 1881.
2. Extracts from a Report by Mr. H. C. P. Bell "On the Maldive Islands." By Albert Gray, Esq., M.R.A.S. Read June 20, 1881.
3. On the Sinico-Indian Origin of Indo-Pali writing. By Terrien de La Couperie, Esq. Read June 20, 1881.
4. On the Andaman Islands and the Andamanese. By M. V. Portman, Esq., M.R.A.S. Read July 2, 1881.
5. The Apology of Al-Kindi-an Essay on its age and authorship. By Sir W. Muir, K.C.S.I. Read Nov. 7, 1881.
6. A reply to some exceptions taken by Lord Stanley of Alderley, to the writer's previous paper "On the duty the Mohammedans of British India owe to the Government of the Country." By N. B. E. Baillie, Esq., M.R.A.S. Read Nov. 7, 1881.
7. "On the origin of the Phœnician Alphabet." By G. Bertin, Esq. Read Dee. 19, 1881.
8. "On a Seulptured Tope represented on an old stone at Dras, near Ladak." By W. Simpson, Esq., F.R.G.S. Read Dee. 19, 1881.
9. "On a Lolo MS. written on silk, procured by Mr. Colborne Baber, now Secretary of Legation in China." By Terrien de La Couperie, Esq., M.R.A.S. Read Dec. 19, 1881.
10. "On the probable meaning of the subjects in Pl. xxviii. fig. 1 of Mr. Fergusson's Tree and Serpent Worship, Second Edition." By the Rev. Professor Beal. Read Dec. 19, 1881.
11. "On the Indian Balhará and the Arabian Intereourse with India in the Ninth and following Centuries." By E. Thomas, Esq., F.R.S., Treas. R.A.S. Read Jan. 23, 1882.
12. "On recent Researehes in Phrygia." By W. M. Ramsay, Esq. Read Jan. 23, 1882.
13. "On the Hańsa Language of Central Africa." l3y the Rev. Mr. Schön. Read Feb. 20, 1882.
14. "On African Seholars." By R. N. Cust, Esq., Hon. Sec. R.A.S. Read Feb. 20, 1882.
15. "On the date and personality of Priyadasi," supplementary to a former paper on the same subject. By R. G. Lathan, Esq., M.D. Read Mareh 20, 1882.
16. "On Buddhist Saint-worship." By Arthur Lillie, Esq. Read March 20, 1882.
17. "On the Vaishnava Religion." By Prof. Monier Williams, M.A., C.I.E., D.C.L. Read April 24, 1882.

Of these papers, as Nos. $1,4,5,6,8,10,13,14$, and 16 have been already printed in the Society's Journal, it is not necessary to say anything more about them here. Those only, therefore, will be noticed which are not at present in type, viz. Nos. 2, 3, 7, 11, 12, 15, and 17.

On June 20, Mr. Albert Gray read a series of extracts from a Report furnished by Mr. H. C. P. Bell "On the Maldive Islands." Mr. Bell, he stated, had been able to make a short visit to these islands, having previously obtained a considerable knowledge of the language of their inhabitants. No complete history of them has, as yet, been discorered, and what is at present known is derived from the notices of the Portuguese and from the early Dutch and English records at Colombo. Their language is certainly Aryan, and closely connected with Sinhalese, in its elder form of Elu. It is to be boped that Mr. Bell may be enabled to return to these interesting islands, to complete his researches, but this time under official sanction.
M. Terrien de La Couperie, M.R.A.S., in his paper "On the Sinico-Indian Origin of Indo-Pali writing," gave reasons for disregarding the Semitic, Sabæan, and Greek hypotheses, implying as these do an Indian influence in Southern Arabia, while, at the same time, he also rejected any indigenous origin. On the other hand, he pointed out that historical facts, as well as traditions, clearly show that relations did exist between India and China so early as the third century b.c.

In support of these views, he laid before the Society a series of tables, proving, in his judgment, that the IndoPali, Corean, Japanese, Lampong, Rejang, Batak, Vatteluttu, and, most remarkably, the Lolo writing, of which Mr. Colborne Baber has recently sent home some specimens, are, really, all offshoots from an older system of writing, consisting, on the borders of China, of a certain number of Chinese characters, used, phonetically, for commercial purposes. The Indo-Pali writing has, he argued, been systematized in India from this elder form of writing.

The main argument in Mr. Thomas's paper "On the Indian Balharâ and the Arabian Intercourse with India in the ninth and following centuries" (which now forms part i. of the 3rd vol. of the "Numismata Orientalia"), depends on the decipherment of the Nagari legend, containing the word Valċ-Ratja, described by Sir Arthur Phayre, in his paper on "Coins of Arakan, of Pegu, and of Burma," pl. i. Nos. 5 and 6. This word, Mr. Thomas contended, suggests a new and unexpected explanation of the title Balharâ, as used by the Arabian merchants, who visited India in the ninth century. The meaning of the title is almost certainly the same as Bara Rai, or Lord Paramount, but it has been hitherto supposed that this appeliation must belong to the king of Kanauj or of Western India, the Arab copyists of the merchant Sulaman's narrative haring
assumed that his mention of the kingdom of Balharâ must, in some way or other, coincide with the grography of their own Muslim provinec of Sind. Mr. Thomas, on the other hand, contends that it is clear from the text of the "Silsilat-al-Tuwarikh," or "Arab Voyages," of A.D. 851, that all the four kingdoms therein adverted to are more or less Gangetie, intra or extra, and would, therefore, naturally come under the notice of any mariner procecding towards a Chinese mart. The sway of the Balharâ must, he thinks, have, as a rule, covercd the outlets of the Ganges. The capital of the Balharâ was, at that time, at Monghir, and, althongh it is diffieult to dcfine this site exactly, it scems almost ccrtain that one of the chief towns
 Bafincoov. The leading authority for the Arab royages of this period is the merehant Sulaiman, for details about whom, Reinaud, "Relations dcs Toyages par les Arabes et les Persans dans l'Indc," Paris, 1845, is our chief authority.

In his paper "On the Date and Personality of Priyadasi," a supplement to a previous paper on the same subject printed in the Journal of the Society twenty years agorol. xrii. o.s.-Dr. Latham argued that Priyadasi must have been the contemporary of three Kings or Magnates with whom he made three compacts, one of which was in the tenth, and the second in the twelfth year of his reign. Will, he urged, the other four compacts, riz. those of Ptolemy, Alexander, Antigonus, and Magas, be held to be supplementary compacts in the twenty-serenth year of his reign? All these he (Dr. Latham) in his previous treatise made not only contemporaneous with Priyadasi, but each with the other, and also with Antiochus.

In his present paper, Dr. Latham makes the four kings contemporary, each with the other, though not with Antiochus. From this point of view, his Antiochus is Antiochus III. (Epiphanes), his Ptolemy is Ptolemy Philometor, his Alex-
ander is Alexander Balas, his Antigonus is Antigonus, the son of Perseus, the last king of Macedon, and his Magas, a Satrap in the North of Syria. All these, he holds, must have reigned between b.c. 191 and b.c. 146. Dr. Latham then gave his reasons for believing that this was a better date for the reign of Priyadasi than any that could be given, under the doctrine that the four later kings were not only contemporary with themselves and Priyadasi, but contemporary with Antiochus also. This, Dr. Latham considered to be the only date to which we can ascribe the historical synchronism of five kings bearing the names stated-in combination with a sixth and equally synchronous king, Priyadasi.

Professor Monier Williams, M.A., C.I.E., D.C.L., read a paper "On the Vaishnava Religion," and laid before the Society the Sikshâ-patrî or Directory of the Swâmi Narâyana sect, as edited and translated by himself, from a MS. given to him, when at their head-quarters at Wartâl and Ahmedabad. In this paper, he showed very clearly the relationship between the Vaishnava religion and the thrce other forms of the Hindu religious system, viz. Vedism, Brahmanism and Saivism.

The two latter, he urged, were too severe and too philosophical for the mass of the pcople; hence, a reaction in favour of Vishnu, the worship of whom implied a personal devotion to a personal God, who could satisfy the yearning of the human heart for a Religion of Faith and Love. Such a God was Vishnu, who evinced his interest in human affairs by his frequent descents and incaruations. Tishnu-worship, connceted as it was with that of the Sun, was unquestionably the popular worship of India, though much split up into sects vehemently opposed, each to the other.

The four principal sects, he added, were founded by Râmâuuja, Madhva, Chaitanya and Vallabha. The Râmânuja sect was, again, divided into two sub-sects, the Yada-kalais and

Ten-kalais : their views as to the nature of the soul's dependence on the Suprome Being differing much in the same way as do those of the Arminians and Calvinists. The Ten-kalais have one of the finest pagodas in India, near Trichinopoly. The Madhva seet was, perhaps, the nearest to Christianity, in that they were strong opponents to Sankara's duality. The Chaitanya sect held that devotion to Vishnu was best symbolized under the figure of human love. The Vallabha seet held similar opinions, and were the Epieureans of India. They taught that the way to salvation was through eating and drinking and enjoying the good things of life.

It was in opposition to this sensual view of religion that the modern Reformer, Swâmi Nârâyana, founded a new seet and wrote his Sikshâ-patrî, a sort of Religious Directory, consisting of 212 preeepts, which give a good idea of the purer side of Vaishṇavism.

Journals.-Royal Asiatic Society.-Since the last Anniversary of May 30, 1881, Parts III. and IV. of Tol. XIII. and Parts I. and II. of Vol. XIV. have been issued, containing the following papers.

> Thus in Vol. XIII. Pt. 3,

—— On the Avar Language. By Cyril Graham, Esc., C.S.I., M.R.A.S.

On Caucasian Nationalities. By W. A. Morrison, Esq.

A Translation of the Mârkandeya Purâna. By the Revd. B. Hale Wortham, M.R.A.S.

Lettre à M. Stanley Lane Poole, sur quelques
Monnaies orientales rares ou inédites de la collection de M. Ch. de l'Ecluse. Par M. Sauvaire, M.R.A.S.

- On Aryan Mythology in Malay Traditions. By W. E. Maxrell, Esq., M.R.A.S., Colonial Civil Serrice.
———The Koi, a Southern Tribe of the Gond. By the Revd. John Cain, M.R.A.S.
- On the duty whieh Mohammedans in British India owe, on the Principles of their own Law, to the Government of the Country. By N. B. E. Baillie, Esq., M.R.A.S.

The L-Poem of the Arabs.

 W. Redhouse, Esq., M.R.A.S., H.M.R.S.L., etc.

## In Vol. XIIX. Pt. 4, are papers

——— On the Andaman Islands and the Andamanese. By M. V. Portman, Esq., M.R.A.S.
—_ Notcs on Marco Polo's Itinerary in Southern Persia (Chs. XVI. to XXI., Col. Yule's translation). By A. Houtum Schindler, Esq., M.R.A.S.
—_ The Epoch of the Guptas. By Edward Thomas, Esq., F.R S., Treas. R.A.S.
-_Two Chinese Buddhist Inscriptions found at Buddha Gayâ. By the Revd. Samuel Beal, M.R.A.S.
——A Sanskrit Ode addressed to the Congress of Orientalists at Berlin. By Ráma Dása Sena, the Zemindar of Berhampore. With a translation by Pandit Shyâmaji Krishnavarmâ, of Balliol College.
_——Supplement to a paper, "On the duty which Mohammedans in British India owe, on the Prineiples of their own Law, to the Government of the Country." By N. B. E. Baillie, Esq., M.R.A.S.

## In Vol. XIV. Pt. 1,

The Apology of Al-Kindy. An Essay on its Age and Authorship. By Sir W. Muir, K.C.S.I., LI.D., M.R.A.S.

The Poct Pampa. By B. Lewis Riee, Esq., M.R.A.S., Director of Publie Instruetion, Mysore and Coorg.

On a Coin of Shams-ud-Duniyâ wa ud-din Mahmud Shah. By C. J. Rodgers, Esq., M.R.A.S.

- On a Sculptured Tope on an old stone at Dras, near Ladak. By William Simpson, Esq., F.R.G S.
- Note on Pl. xxviii. fig. 1, of Mr. Fergusson's "Tree and Serpent Worship," 2nd Edition. By the Rerd. S. Beal, Professor of Chinese, London University, M.R.A.S.
-_ On the present state of Mongolian Studies. By Prof. Jülg, in a letter to R. N. Cust, Esq., Hon. Sec. R.A.S.
——A Sanskrit Ode, addressed to the Fifth International Congress of Orientalists assembled at Berlin. By the Lady Pandit, Ramà-Bâî, of Silchar, Assam.
-_On the intercoursc of China with Eastern Turkestan and the adjacent Countries in the Second Century b.c. By Thos. W. Kingsmill, Esq., Pres. N. China Branch R.A.S.

Suggestions for the formation of the Semitic Tenses. A comparative and critical study. By G. Bertin, Esq., M.R.A.S.

- On a Lolo MS. written on satin. By Terrien de La Couperie, Esq., M.R.A.S.

In Vol. XIV. Pt. 2,
———On Tartar and Turk. By S. W. Koelle, Ph.D.
Notice of the Scholars who have contributcd to the extension of our knowledge of the Languages of Africa. By Robert N. Cust, Esq., Hon. Sec. R.A.S.
-Grammatical Sketch of the Haúsa Language. By the Rev. J. F. Schön, of the Church Missionary Society.
———Buddhist Saint Worship. By Arthur Lillie, Esq., M.R.A.S.

Gleanings from the Arabic. By H. W. Freeland, Esq., M.R.A.S.

Al Kahirah and its Gates. By H. С. Kay, Esq., M.A., M.R.A.S.

-     - How the Mahabharata begins. By Edwin Arnold, C.S.I., M.R.A.S., Officer of the White Elephant of Siam.

Arab Metrology. IV. Ed-Dahaby. By M. H. Sauvaire, M.R.A.S.

Asiatic Society of Bengal.-Vol. L., pts. i.-iv., edited by the Philological Secretary, contains, in Part 1, papers by Vincent A. Smith, Esq., B.A.;-Contributions to the History of Bundelkhand. In Part 2, On the Revenues of the Mughal Empire, by H. G. Keene, C.S. ;-On the identity of Upcllo with Upaplava, by Rishi Kcsh Bhattâ Chârya Shâstrî, a paper of considerable archæological interest;-Translations from the Hamâseh, by C. J. Lyall, C.S.;-and The Revenues of the Mughal Empire, by Edward Thomas, F.R.S., late Bengal C.S. ; and in pts. iii. and iv. Relics from Ancient Persia, by Maj.-Gen. A. Cunningham; and Contributions on the Religion, History, etc., of Tibet, by Babu Sarat Chander Das. The papers on Coins, which are numerous, will be noticed under "Numismatics." In their papers "On the Revenues of the Mughal Empire in India," Messrs. Keene and E. Thomas criticize the views put forth by Mr. C. J. Rodgers in his "Copper Coins of Akbar," Jour. Beng. As. Soc. vol. xlix. p. 213, but do not themselves agree.

The Madras Journal of Literature and Science, for the ycar 1880, under the skilful editing of Dr. Gustave Oppert, continues its useful series of papers-this volume containing those on very various subjects, as, for instance, by J. II. Nelson, Esq., M.A., entitled "Mindu Law in Madras in 1714 ;"—"The predccessors of the Migh Court of Madras," by John Shaw, Esq., late Registrar of the Migh Court, Madras;—"The Madras Harbour," by W. Parker, Esq., M.I C.E.;-and "Descriptive remarks on the Seven Pagodas," by Lieut.-Col. Branfill, C.S.I., a paper which
more naturally falls under the head of Archæology. In the first paper, Mr. Nelson goes over much of the ground he has traversed in lis "Hindu Law at Madras," in the Journal of this Society, Vol. XIII. Pt. II. April, 1881especially with reference to a famons letter, written in 1714, after he had been working at the Madura Mission for 26 years, by the Jesuit Father Bouchet to President Cocher, a leading magistrate in France, the gist of which is to show that the Indians he met with had no civil laws, but only certain religious precepts - "Ils ont ni Code ni Digeste," he says, "ni aucun livre ou soient écrites les loix auxquelles ils doivent se conformer pour terminer les differents qui naissent dans les familles." Mr. Shaw, in his paper, "The Predccessors of the High Court of Madras," ably describes the course of legal procedure in that Presidency from March, 1678 , thirty-eight years after the Raja of Chandagiri had granted the strip of territory on which Fort St. Gcorge was built, to A.D. 1726. The three papers should be studied together, forming, as they thus would, a clear sketch of the old Law of Madras previously to the establishment of the Supreme Court. Mr. W. Parker's account of the construction by him of the first harbour between Trincomali and the Hugli, is worth attention though scientific rather than literary.

Journal of the Bombay Branch of the Royal Asiatic Society.Vol. xir. No. 38 (1880), contains papers by Mr. E. Rehatsek, "On the History of the Wahbábys in Arabia and India," -and "The Doctrines of Metempsychosis and Incarnation among nine heretic Muhammedan Sects" : and vol. xiv. No. 39 (1881), four papers by the same gentleman, entitled, severally, "Picture and description of Borák,"-"The Alexander-Myth of the Persians,"-"Specimens of Pre-Islamitic poetry selected and translated from the Hamasah,"-and "Emporia, chiefly ports of Arab and Indian International Commerce
before the Christian Era" (with a Map). The Rev. A. Bourquin eontributes a paper "On Dharmasindhu—or the Ocean of Religious rites." Other papers there are whieh will be notieed under their speeial heads. In the Proeeedings for 1880 is an interesting aecount by the Hon. J. Gibbs, C.S.I., M.R.A.S., of the Order of the Cross and Seal of Solomon proposed to have been founded by King Theodore of Abyssinia.

Ceylon Branch of the Royal Asiatic Society.-No Journal of this Society has, so far as we are aware, been published this year, but the address of the President Charles Bruee, Esq., C.M.G., M.R.A.S., has been forwarded to the Soeiety, and deals with the literary progress of Ceylon, in a remarkably elear and satisfactory manner. Mr. Bruee divides his address under the various heads of:-1. History. 2. Religions. 3. Literature. 4. Ar't. 5. Social condition of the People. 6. Physieal Seience. In the first of these, Mr. Bruee bears high testimony to the valuable labours of Dr. E. Müller, -stating that his Report may soon be expeeted, with the further assurance that the well-known labours of MahaMudaliyar de Zoysa on the Translation of the Mahawanso have been only delayed by failing health and loss of sight, it being also thought more important that he should devote what remaining strength he may have to the eompletion of the Catalogue of the Sanskrit MSS. in the Temple Libraries, on whieh he has been for many years engaged. Mr. Bruce adds that M. de Zoysa appears to have found in the Mahavanso a passage, whieh, if eonfirmed, will go far to explain the true origin of the Veddás. Mr. Bruee further states that two Vedda skulls have been sent to Prof. Virehow,-and that an essay on them, entitled, "Ueber die Weddas von Ceylon und ihre beziehungen zu den Naehbarstammen," has reaehed Ceylon. Full details of Prof. Virehow's views camot, however, be published at present, as he has naturally asked for further
details with regard to tho number of Veddas still surviving, their colour, shape of features, etc., etc.

Wo are glad to learil from Mr. Bruce that Mr. Albert Gray, M.R.A.S., has offered to the Society a translation from the French of Dufremery and Sanguinetti of so much of the Travels of Ibn Batuta (about A.D. 1344) as rclates to Ceylon and the Maldive Islands, -that Mr. Donald Ferguson is preparing a translation from the work of Prof. I. de Vasconcellos Abreu, cntitled, "Origem do Reino do Scocs e do nome de Ceilao," and further that there is good hope of much interesting historical matter being discovered in the old Dutch records still preserved in the Goverument Office. Under his second head, Mr. Bruce points out how much valuable literary work has been done by missionarics, whose first object has been, properly, to study any number of different languages, so as to fit themsclves thereby for the highest task of all, the translation of the Holy Scriptures. In many cases, besides translating the Bible and other elements of the Christian Faith, the missionaries have been able to give critical editions of original texts of ancient books, which claim to be the repositories of primeval creeds: the result being that Christian scholars have now made it possible for the adherents of the four chief antagonistic systems prevalent in the world-Christianity, Brahmanism, Buddhism and Islâm-to study each of their dogmas, in the books held to be sacred by each. Much has been done in Ceylon for the promotion of Buddhist literature, mainly through the exertions of the Managers of Vidyâdaya College Library, and of the library of the Priest Subhuti Terannânse of Waskadawa. The College library was founded by the High Priest, Sumangala, the Principal of the College, and was opened about two years ago; and is rich in Pali, Sanskrit, and English works relating to Buddhism, being open for public use, without the payment of any subscription. The learned owner of the Waskadara library has prepared a revised edition of the

Pali Dictionary, Abhidánappadipiká, which is now in the press, and has made a Catalogue of the works in his own Library, which will be of great use to the Pali Text Society.

Mr. Donald Ferguson has prepared for the Society the text and a translation of the Jinacaratan-a life of Buddha in Pâli verse: a private Society of Buddhists has lately published the Sasavansa Dipo-a history of the Buddhist Church in Pâli verse: Prof. M. M. Künte has written a paper on Nirvana, which will be published in a future number of the Journal: Mr. C. J. R. Le Mesuricr has drawn up an account of the chief religious ceremonies observed by the Kandyans, and Mr. A. T. Shams-ud-din one on the Mira Kanduri festival of the Muhammedans-with the addition of an interesting note, supplied by Mr. H. C. Bell. Mr. Bell, in a paper before the Society, has shown that, till quite rccently, Buddhism can hardly be said to have existed at all, as a religion, among the lower castes of the Sinhalese. MahaMudaliyar de Zoysa is preparing for publication the translation of a sermon by Buddha on Omens. Mr. Bruce, under his third head, gives very ample and interesting details of various works by Mr. Gunetilake, to some of which allusion was made in last year's report. Mr. W. P. Rapasiṇha is preparing a paper "On the Sinhalese Language." The physical portion of Mr. Brucc's able report need not be dwelt on here.

From the Proceedings, we gather that Mr. S. Mervin, a Jaffa Tamil, has contributed an able paper, "On Hindu Astronomy as compared with European Science," though some of the statements in it may be reasonably questioned :and that Mr. Smither read a paper "On some ruins at Horana;" adding, somewhat later, an able letter, combating, at considerable length, tho views set forth by Mr. Mervin.

Journal of the Straits Branch of the Royal Asiatic Society. -This Branch of the Royal Asiatic Society, which is located
at Singapore, has continued its useful labours during the past year. Thus, in Part 6 are excellent papers by Messrs. F. A. Swettenham, N. B. Dennys, and the Rev. J. Perham. In the first the writer gives an interesting account of the "Independent Native States of the Malay Peninsula": in the second, Mr. Demuss continues his valuable contribution to Malayan Bibliography; -in the third, Mr. Perham gives a very eurious "Sea-Dyak Tradition of the Deluge and consequent Events." The two following Nos., 7 and 8 , are full of matter, but, maturally, of more direct interest to the dwellers under the Equator, than to the readers of this Journal. It is worth while, however, to give a list of the artieles published, as these will show better than anything else the range of study of the contributors to this Journal. 'Thus, in I't. 7, we find papers by J. Errington de la Croix, On the mining districts of Lower Perak; by W. E. Maxwell, M.R.A.S., On the Folklore of the Malays ;-by J. J. L. Wheatley, On the Rainfall at Singapore ;-by Capt. W. C. Lennon, Journal of a Toyage through the Straits of Malacca on an expedition to the Molucea Islands (in 1796);-A sketch of the career of the late James Richardson Logan, by J. Turnbull Thomson ; -and a Memorandum of the various tribes inhabiting Penang and Prorince Wellesley, by J. R. Logan. It should be stated that the last two papers have been lying for years unnoticed in Government offices: and that the first was discovered in the India Office Library, and copied, when recently in England, by Mr. W. E. Maxwell, M.R.A.S. In Part 8, are papers On the Endau and its tributaries; -an Itinerary from Singapore to the source of the Sermbrong, and up the Mâdek, by D. F. A. Harrey, M.R.A.S.;-Setara, or Sea Dyak Gods, by the Rev. J. Perham; -and Klouwang and its Cares, on the west Coast of Achin, translated by D. F. A. Hervey from the travelling notes of M. L. H. Wallon.

Journal of the North China Branch of the Royal Asiatic Society. New Series, No. xv. 1880. The Journal for the year 1880, the last which has reached us, contains only papers by Messrs. Bretschneider, S. W. Bushell, and F. H. Balfour. Of these, the first and last relate to matters of physical science-Dr. Bushell's will be noticed under "Numismatics." -No. xvi. is entirely devoted to matters Chinese, and to physical science. It docs not, therefore, come directly under the consideration of this Report. The titles, however, of the several articles shall be given-and it may be added that many of them are very interesting, and quite sustain the previously high character of this Journal. The subjects are, 1. Notes on the Hydrology of the Yang-tse, the Yellow River, and the Peiho, by H. B. Guppy, Esq., M.B. 2. Some Notes on the Geology of Takow, Formosa, by the same. 3. Botanicon Sinicum - Notes on Chinese Botany from Native and Western Sources, by E. Bretschneider, M.D. Appendix, Celebrated Mountains of China. 4. The Climate of Shanghai - its Meteorological Condition, by the Revd. Father M. Dcchevrens, S.J.; and a list of the Ferns, found in the Valley of the Min River, Foochow, by G. C. Anderson, Esq.

Transactions of Asiatic Society of Japan.-Vol. ix. part 2 contains Contributions to the History of the Japanese Transcription of Chinese Sounds, by Joscph Edkins, D.D.; Historical Notes on Nagasaki, by Mr. W. A. Woolley ; Capture and Captivity of Père Giovan-Battista Sidotti in Japan, from 1709 to 1715 , by Rev. W. B. Wright;-Dcscriptive Notes on the Rosaries (Jin-Dzu) as used by different Sects of Buddhists in Japan, by Mr. J. M. Jancs;-and Ancicnt Japanese Rituals, by Mr. Ernest Satow. In vol. ix. part 3 are papers by Mr. W. G. Aston, "Hidcroshi's Invasion of Korea, Chapt. 3, Negotiation"; - by Mr. Basil II. Chamberlain, " $\Lambda$ Translation of the Dou-zhi-
ken, Teachings for the Young ";-and by Mr. J. Conder, "The history of Japanese Costume, No. 2, Armour." Dr. Edkins's paper is of value as showing that the intercourse between China and Japan was really older by centuries than Mr. Satow had urged in a former paper, thero being evidence of embassies between the two countries as early as the first and second centuries A.d. Mr. Woolley's paper will ehiefly interest dwellers in Japan; but there is in it a curious account of the visits of English and Russian ships of war in 1673 and 1804 respectively. On the latter oceasion, when the Russian Envoy paid a visit to the Governor, the roads through which he and his suite passed were hung with curtains on each side, to prevent the liussians from seeing or being scen. The Rev. W. B. Wright's translation of the original native account of the Capture and Captivity of Père Sidotti is very eurious. Mr. Chamberlain, in his paper, which is translated from the Chinese, states that the author of the "Teachings for the Young" is believed to have been an eminent Buddhist priest who lived about a.D. 88t, who wrote many works on the Sacred Books of the Great Yehicle (Mahâyâna School), and made investigations into the Sanskrit (Pali) Language.

Journal Asiatique, rol. xvii. No. 3, April, May, June, 1881, commences with an elaborate article by M. Halevy, M.R.A.S., entitled "Essai sur les Inseriptions du Safa," the continuation and completion of a previous article already noticed in the Report of this Society for 1881. This is followed by an important article by M. Basset, ealled "Etudes sur l'Histoire d'Ethiopie," $1^{\text {re }}$ partie, in which he examines the story of the early history of Ethiopia, together with an Ethiopian Chronicle, preserved among the MSS. of the "Bibliothèque Nationale." In this paper, M. Basset gives the Ethiopic text from the MS., with a translation, and a large number of valuable notes. This paper is followed by
one by M. M. J. Darmesteter, "Observations sur le Vendidad," in which he criticizes pretty freely the views held on the same subject by MIM. Bréal, West, and de Harlez. The part concludes with a paper by M. Léon Feer, "Etudes Bouddhiques-Comment on devient Pratyeka Bouddha," in which he points out that there were, in reality, thrce Buddhas, 1st, the Bodhi des Çravakas - the most humble of the three; 2. The Bodhi of the Pratyeka-Buddhas, who occupies an intermediate position ; and 3. The Bodhi of the Buddhas, who holds the highest place; M. Feer adds, homever, that there is no practical difference between these different Buddhas-whatever difference there may be, when considered metaphysically, such differences, even if they exist, bcing of too refined a nature to be stated in popular language. The part concludes with a notice of the different matters discussed at the several meetings of the Society from April to June, the most important being, M. Halevy's criticism on Mr. Saycc's account of the Inscription at Siloam;-by the same writer, "On the names of some Babylonian Diviuitics mentioned by Bcrosus," with reviews by C. de Harlez of E. West's "Pahlavi Tcxts" translated for the Sacred Books of the East;-by M. Sénart, of "Le denouement de l'histoire de Rama-Outtara-Rama-Charita, by Prof. Nève ; " and, by M. Barbier de Meynard, of "Haroun Arraschid, Caliph of Baghdad, by E. II. Palmer," and by M. Zotenberg, of "Dic Arabischen Handschriften de Herzoglichen Bibliothek zu Gotha," edited by Dr. W. Pcrtsch.

Tom. xviii. No. 1, July, 1881, is, as usual, entirely devoted to M. Renan's Annual Report, in which, inter alia, he gives good notices of the late M. de Saulcy, stating that he was the first to read the name of Sargon on one of the Khorsabad Mouuments, and of M. Maricttc, whose recent death it is not only Egyptologists who deplore.

In the No. for August and Scptember, M. Basset continucs
his previous paper on the history of Ethiopia, with a collection of "pièces justificatives" of the highest interest. M. Rodet, always foremost in the application of modern mathematical science to the investigation of ancient problcins of the same class, contributes a valuable paper entitled "Les pretendus problèmcs d'Algèbre du manuel du calculatcur Egyptien (Papyrns Rhind)," in which he discusses, at considerable length, the famous paper published in 1868 by M. Eisenlohr, entitled "Ein Mathematisches Handbuch der Alten Agypter," and M. Cantor's "Vorlcsungen zur Geschichte der Mathenatik."-M. Amiaud contributes " Matériaux pour lc Dictioumairc Assyrien," together with a brief notice on the Inscription of Siloe by M. Halery.-M. Camille ImbaultHuart adds a paper, called " Miscellanées Chinoises," comprising " Une visite à un Etablisscment Charitable Indigène près Changhai," and "Notice sur la vic et les œuvres de Oueï Iuan."-M. Huart reviews "Numounè-i Eilebiyyat, Modèles de litterature," by Abou-z-ziya Teotiq-Efendi, published at Constantinople in 18 \%9; and M. Aristide Marre adds notes "Sur le Biographie Malaise."

In Oct. Nov. Dec. 1881, M. Basset continues his "Etudes sur l'histoire d'Ethiopie," with the same richness of "pièces justificatives" which characterize his earlier papers. M. Rodet follows up his essay "Les pretendus problèmes d'Algèbre." M. Léon Feer continues his "Etudes Bouddhi fues" with a paper entitled "Comment on devient Arhat," the number concluding with a paper by M. Sauvaire, on the subject on which he has thrown recently so much light, viz. " Matériaux pour servir à l'histoire de la Numismatique et de la Métrologie Musulmanes," the first portion of which deals with "Monnaies." M. de Harlez adds " Un fragment d'un Commentaire sur les Tendidâd." Among the "Nouvelles et Mélanges," at the close of the part, M. C. ImbaultHuart continues his paper, entitled " Miscellanées Chinoises," comprising " Historiettes Morales," "Anecdotes et bons

Mots," "Les ponts suspendus au Yun Nana," and "Pensées et maximes inédits." M. Barbier de Meynard reviews M. Hartwig Derenbourg's "Le Livre de Sibawaihi, traité de Grammaire Arabe"; and the "Catalogue of the Persian MSS. in the British Museum, drawn up by C. Rieu, vol. ii. 1881."

In part i. Jan. 1882, M. Renan contributes a paper, "Sur quelques Noms Arabes qui figurent dans les Inseriptions Grecques de l'Auranitide," in which he diseusses, with his usual completeness, the whole question of the Haurán Inseriptions, his immediate subject being some twelve Inscriptions published by the American Oriental Society in 1855, the results of the researches of the Rer. Mr. Porter, of Damascus. His criticism will not (we think) be pleasing to the authors of this production. M. Sauraire continues his paper "Sur la Numismatique et la Metrologie Musulmanes." M. Oppert gives an account of "Les Textes Sumériens rapportés du Tell par M. de Sarzic." M. Léon Feer adds a review of "Les Instructions familières du Dr. Tehou-po-lou" ; and M. C. de Harlez, a review of "Dinkart, Le Future et la Foi," by Peshotu Behramji Sungara.

No. 2, Fevrier et Mars, 1882, contains articles by M. Sauvaire, "Sur la Numismatique et la Metrologie Musulmanes"; — by M. Clement Huart, "Sur les livres Tures, Arabes et Persans," 2nd artiele;-by M. Abel Bergaigue, "Une Nouvelle Inscription Cambodgienne."-M. Huart's paper is a continuation of one published by him in October, 1880, and comprises a valuable notice of books that have been printed in Constantinople, together with others from the presses ef Beirut and Cairo. M. Muart, also, gives a list of the different newspapers published in Turkish at Constantinople, and, also, of those in languages foreign to the Turks, with a further notice of the Journals issued in Rumelia, Smyrna, Egypt, ete. In the "Annexes" at the end of the volume, are a series of brief but useful papers, by MII.

Hauvette-Besnault, Sénart, D'Abbadic, Inbault-Huart, and Pavet de Courteille.

German Oriental Society.-Since the last Report, vol. xxxy. parts 2, 3, and xxxvi. part 1 have been issued, containing as usual a large quantity of interesting matter. Most of the articles are however on technieal, not to say special, subjects, and will therefore be noticed hereafter under their respective heads.

American Oriental Society. - In rol. xi. pt. 1 of this Journal are the following papers, eaeh and all of importanee for the students of Oriental Philology-
"On the verbal roots of the Sanskrit Language," by A. Hjalmar Edgren:-"On the aceentuation of the Vocative ease in the Rig and Atharva Vedas," by William Haskell, Ph.D. :-"On the relation of the Palatal and Labial Vowels in the Rig-Veda," by A. Hjalmar Edgren:-"Notices of Fu-Sang," ete., by Prof. S. Wells Williams:-"Indra in the Rig-Veda," by Mr. E. D. Perry. The present volume gives an aecount of the different meetings of the Society during the years $1878,1879,1880,1881$, and of the papers read at them, many of whieh are naturally of much value. The special papers in this volume and in the Proceedings for 1881 will be noticed hereafter under their appropriate subjects.
The twelfth rolume (published six or eight months before vol. xi. pt. l) is entirely occupied by Prof. W. D. Whitney's elaborate "Index Verborum" to the Rig-Veda, occupying 383 pages, closely printed with two eolumns on each page.

Archreology.-Considerable progress has been made this year, as in former years, in Archæologieal researches; but, with the exception of Mr. Rassam's work in Southern

Babylonia, which will be noticed under the head of "Assyrian," there is not so much specially to record. The last publications of Major-General Cunningham, with a few notes on the work done quite recently by Messrs. Sewell and Burgess must, however, be noticed.

Major-General Cunningham, in the twelfth volume of his Archæological Survey, gives a report of tours in the Central Doab and Gorakhpur distriets made by Mr. Carlleyle, under his superintendenee, 1874-5 and 1875-6. These have, of course, some interest, and would have had more, were it not, as we have pointed out on previous occasions, that so long a time has elapsed since these journeys were made. Doubtless, General Cunningham has done his best to expedite the publication of his Journals, but the faet remains that we are reading, for the first time, in 1880, the results of work done six or seven years ago. Time, in Arehæological researeh, as in everything else, passes on rapidly, and the student, at home, if not in India, would prefer to know what was done last year, to what may have been accomplished several years before. The chief matters of the present volume are a description by Mr. Carlleyle of his labours in the two districts above mentioncd, in each of which he made discoveries which may, hcreafter, prove to be of importance. Thus, in the Doab, he examined thoroughly the great mound of Indor Khera (Indraputra), and obtained thenee, a copper-plate inseription of Skanda Gupta, dated in the year 146 of the Gupta Era (or about A.D. 224-5), a translation of which has been supplied by Rajendra Lala Mitra.

The most valuable result of his researehes (if indeed the data on which his reasoning rests should prove to be satisfaetory on more carcful study), is the determination of the position of the celcbrated town of Kapilacastu, the birthplace of Sakya Buddha, and, for many years, the most venerated of the Holy Places of Buddhism. At present,
only a more village, there still remain around it many old sites, tho unchanged names of which tend, apparently, to eonfirm his identifieation. Of these, may be mentioned the Sar-kilia or 'Arrow-well,' and the Mathi-gadha or 'Elephant Pit,' both of which spots are mentioned by the Chinese Pilgrim Hiouen-Thsang.

General Cunningham adds that, some time subsequently, he himself visited these places, and was convineed that Mr. Carlleyle's discovery was well founded, which of eourse it may be, though the evidenee for the identification is somewhat shadowy and difficult to follow without more details than are at present availablc. Gen. Cunningham is, also, of opinion, that the sites of the birth-places of the two previous Buddhas, Kraku Chanda and Kanaka, have been corrcctly made out. It is not necessary to give here the dctails of Mr. Carlleyle's work, but it may be remarked that in these cxcavations, as at Ninevch, the diseoverers noticed impressions of the feet of animals whieh must have walked over the soft elay of the bricks before they had hardened. Inter alia, Mr. Carlleyle observed one of a leopard $3 \frac{1}{3}$ inches in length by $2 \frac{1}{3}$ in breadth; while another briek bore further marks of the two paws of either a young leopard or of a wolf ; another exhibited those of the hoof of a young deer or Sanbur; while yet another one had been broken in two by the spring of an antelope. There was, also, the impress of a human foot, 7 inehes in length, by 3 in breadth, and, therefore, probably that of a child. The great mound of Indore (Indraputra?) measures 8.50 feet from N. to S. and about 12.50 feet from E . to W. Mr. Carlleyle was so fortunate, as to diseover the site of one of the original gate-ways, and to excavate, thenee, a richly sculptured block of Kankar stone, which had evidently belonged to one of the side corners of the ancient entrance. It seems probable, that ancient Indraputra was a fortified city, not unlike Nimrud, consisting of a great earth-work platform, surrounded, perhaps, by a parapet wall, with a
lower and outer fausse-braïe. In the course of his excavations, Mr. Carleylle, at various places, found massive brick walls, many of the individual bricks of which measured Ift. 4 in . to lft . 9 in . in length, $9 \frac{1}{4}$ in breadth, by $2 \frac{1}{2}$ inches in thickness. It is curious to see, how nearly these measurements agree with the finest Roman brick-work of the time of Nero, as recorded in Mr. J. H. Parker's Roman Researches. It should be added that this volume is accompanied by a good index and by twelve plates, with maps and lithographs, variously illustrating its text.

We proceed now to give some Arehæological details from the Journals of different societies, and we take first that of the Bengal Asiatic Society. Thus, in vol. L. pt. 1,

Mr. V. Smith, in a paper entitled "Contributions to the History of Bundelkhand," points out that the period of the great Tank-Work, in that district, admits of being clearly distinguished as Chandel, or pre-Chandel. In the Gaharwar, or later works, no eut stone is ever found in the embankments, whereas, those made by the Chandels are generally found to be of dressed granite blocks. The general antiquity of the Gaharwar works is attested, not only by the rudeness of their construction, but also by the fact, that, in several eases, the embankments are broken, and the beds of the Lakes or the Tanks are dry. The greatest of the Gaharwar works is the massive embankinent of the Bijanagar Lake, a beautiful sheet of water about four miles in circumference, situated three miles east of Makoba. Mr. Smith's paper is of much Arehæological interest, as giving a very full account of the Chandel prinees and of their works, and, also, as supplementing the earlier reports of Major-General Cunningham (see Arehæol. Reports, vols. ii. and ix.). Mr. Smith has, also, furnished a useful Chronologieal Table of the more important data, agreeably with which it has been drawn up.

In vol. L. part 3, General Cunningham gives a very
interesting notice, aceompanied by nine autotype plates, of "Relies from Ancient Persia in gold, silver, and copper." These objects were found in 18.7 , on the N. bank of the Oxus, near the town of Takht-i-Khawàt, opposite Khulm. The finders having quarrelled, the collection was, of course, dispersed. Two of the best specimens were given by Sir Louis Caragnari to Lord Lytton ; most of the remainder came into General Cmuingham's hands. Many eoins were found with them, ranging, in his opinion, orer a period of about 300 years, from the time of Darius Hystaspis to that of Antiochus the Great and Euthydemus of Bactriana.

From the Proceedings of the Society we learn that, at rarious of their meetings, Dr. Hocrnle exhibited a miscellaneous collection of relies excavated at Buddha Gaya, these being, however, by no means, neeessarily, synchronons with the period when this building was perfect;-that Mr. Linche gave an account of his excavation of a mound near Imad-pur;-and Mr. F. S. Growse a note on a photograph of a Buddhist Sculpture found at Bulandshahr, with details of other "curiosities" found at that place. The seulpture is that of a Buddha on a square block, $16 \frac{1}{2}$ inches each way, with a Buddhist inseription in characters of the ninth or tenth century. The "curiosities" seem to have consisted of a considerable number of rude rases or pots, found among the remains of an ancient potter's kiln.-At a subsequent meeting, Dr. Hoernle described a curious old seal, also found on or near the same site by Mr. Growse. On it was a name in characters of the fifth century, which would seem to read Satilla, or Mattila. Somewhat later, Dr. Mitra read a paper "On the Temples at Deoghar," wherein he stated that the principal buildings of the place are all located in a court-yard in the N.E. quarter of the town, the largest and the most sacred one, a Temple, being not more than 400 years old. The presiding Divinity is a lingam about $3 \frac{1}{3}$ inches high, and 4 inches in diameter. Some of
the images in the minor temples are probably of Buddhist origin. Mr. H. Rivett-Carnac has contributed a large collection of Stone Implements, many of them of entirely new types, found by himself and Mr. J. Cockburn in the Banda District, the latter gentleman having an especial claim to recognition for the zeal which he has personally shown in seeuring this remarkable collection of about 366 axes or portion of axes. As in Europe, these antiquities fall into the same two leading classes, of chipped or rough hewn, and polished Celts; the Celts from the far East and the far West having a remarkable similarity. What is, however, very curious, as confirming the manner in which Mr. John Evans thinks that these objects were hafted, is the fact that Mr. Cockburn discovered an old stone carving in the Banda district, on which is a man holding in his hand a stone implement, inserted in a handle. Mr. J. Cockburn, also, exhibited at one of the meetings of the Society, a multiple Phallus of an uncommon shape, known as the Panchanan or Panchmukki Lingam: he found it among a heap of fragments of sculpture, Celts, etc., just outside the village of Uchah, in the Banda district (see Maisey, Ant. of Kalinjar, J.A.S. vol. xvii. pp. 177, 187, 198).
In India itself, Mr. Sewell and Mr. Burgess have been busily employed, though, generally, indepcudently, Mr. Sewell having been the first in the field-as Mr. Burgess was delayed for some time on his way from England to Madras, viâ Bombay. It appears that, in the autumn of last year, Mr. Sewell received a notice from the Kistua district of the discovery, in a mound of carth ncar the village of Mallevaram, in the Tumrikota division of Palnaid Taluk, of some sculptured marbles, the description he reccived leading him to think that the original structure was, probably, that of a Buddhist place of worship, most likely resembling the neighbouring Amravati. Mr. Sewell, at once, therefore, applied to the Goverument of Madras, and
an order was sent by the Chicf Sceretary, desiring that a guard should be placed over any sculpturcs that might be found, till they could be properly examined by Mr. Burgess. The actual name of the place scems to be Iaggayapet. Since Mr. Sewell first heard of it, there has been time to cxamine the remains thoroughly, and these turn out to be as important as he at first anticipated. We understand that Mr. Scwell's other Archæological work has been proceeding satisfactorily; his first volume, with a skeleton list of the Antiquitics of each district in the Presidency of Madras, book references, notes on the inscriptions, and a brief historical outline at the commencement of each district, having been completed, with Preface and Index. The second volume will, doubtless, contain much general and practical information, as well as a table of known inscriptions arranged in order of date, together with gencalogical lists of dynasties. The inscriptions are classed by Dynasties, so as to collect together all those belonging to any one ruler, chronologically. Added to the above will be a brief notice of the examination of 215 copper-plate grants. It will, however, probably be some time before the second rolume can be issued from the prcss.

The following is the substance of what Mr. Burgess has ascertained during the examination he has recently given to the site of Mr. Sewell's discovery. The place is about 30 miles from Amrarati, and, unquestionably, represents the remains of a Buddhist Stûpa, two or three centuries earlier than Amrárati, and probably as old as the Vihâra at Pitalkhorá and the Stûpa at Bharhut, ie. about 200 в.c. The first discovery was that of some limestone slabs, one bearing sculptures, apparently arranged in a circle, together with an inscription on a broken pillar. These indications were sufficient to show that a Buddhist tope had been discovered on a mound on the Dhana Bodŭ hill. The monument had been, howerer, greatly injured, as it had
been used, from time immemorial, by the people of the neighbourhood, as a quarry, the slabs the villagers met with having been broken up and carried off whenever likely to be of service. Mr. Burgess thought that, originally, there must have been a systematic distinction of pillars, which covered a large platform, extending about 160 yards eastwards, from the Stûpa. About 30 bases of these pillars remain, but they are all broken off at the level of the ground. Stelæ, as at Amravati, had stood on the four sides of this Stupa, and a fragment of one of these, with a long inscription of Madhariputra, one of the Andhra kings, was still found remaining in the roof of a ruined temple at the foot of the hill. It must have been carried off at least a century ago. Again, at the east gate of the Stûpa, another pillar was found, buried where it had fallen, and bearing a nearly identical inscription of the same king. The base of the Stûpa has been surrounded by slabs, about four feet high, the joints being covered by little pilasters carved on the edge of each slab. These pilasters have winged animals on their capitals, and a human figure on the shaft. The capitals are so like those in the Vihara at Pitalkhorâ (Cave Temples, pl. xvi.), that they must be relegated to the same age-that is, to a period long anterior to the probable date of Madhariputra. Only two sculptured slabs and a few fragments have been found, but the carving on these is in so arehaic a style and in such low relief, that they could not have been executed within half a century after the Amravati sculptures, or at Amravati itsclf. Mr. Burgess was fortunate cnough to diseover an inscription of Pulumâri Vaisisthâputra; and, over two of the pilasters, he found, also, fragments of short inscriptions in an alphabet identical with that used in the Pitalkhorâ Caves, and of a date quite four eenturies earlier than that used at Madhariputra. This cvidence shows that the tope was constructed about 1.c. 200, possibly by one of the very first of the Andhra
kings, its existence in this distriet having a distinct bearing on the spread of Buddhism, as, also, on the state of the Arts in Telingana at that early period. The stone used is the same as that at Amravati, and, for both works, the quarry was, doubtless, at Muktiyàla, about six miles from this plaee, whence the bloeks were earried down the Kistna to Amrârati. Mr. Burgess was, also, suecessful in laying bare the Proeession path, about $10 \frac{1}{2}$ feet wide, quite round the Stûpa, at the same time diseovering fragments of the base, on whieh, no doubt, the rail onee stood.

Many interesting papers have been printed in the Journals of different Soeieties, on the subjeet of Indian Arehæology during the last year, of which the following may be speeified. Thus, in the Athencum, Sir George Birdwood has written "On Ajanta Care-Paintings," in whieh he suggests a, probably, indireet influence on them from China, his opinion being that the flowers and fruits on these Buddhist freseoes have a remarkable resemblance to those roughly painted on modern Chinese tea-chests. In following out this argument, Sir G. Birdwood ealls attention to four panels, embroidered in appliqué, and arranged exaetly as at Ajanta, the floral decorations separating them haring mueh resemblanee to those at Ajanta. Again, in the mural deeorations of Ajanta Care No. 2, Sir George has notieed a Dragon's head, whieh might be Chinese, Japanese, Burmese, or Nipalese. Mr. Fergusson has pointed out the similarity between the Priests' tombs in Canara and the Pagodas at Katmandhu, in Nipal, China and Tibet (Hist. Ind. Areh. p. 2̃j), at the same time, showing the almost identity of a figure on the arehway behind the Great Wall at Nankin, Garuda, the half-man half-bird, on which Vishnu rides, with the seren-headed Naga or serpent on eaeh side of him, - and the subject over the doorway of the Durbar house at Bhatgaon. This type of art, Mr. Fergusson thinks, represents one which came into China from the North. In both these examples,
below the Nagas, whieh flank Garuda right and left, there is represented the monstrous form, so common in Indian decorative work, the identity of the Chinese-like Dragon form at Ajanta with the Chinese and Burmese Dragon, being very striking. Sir G. Birdwood adds that the designs of the ornamental wares made in Kashmír, Bijnaur, and Purniah, as well as in other plaees in the N.W. Provinees and Lower Bengal, are still often eopied from obseure Chinese examples, the originals of whieh rarely come to Europe.-In a later number of the same Journal, Mr. H. B. W. Garriek ealls attention to a number of huge Monoliths in the provinees to the N . of the Ganges, apparently marking the direetion of a road, perhaps a Royal one, between Pataliputra and Nipal. We know from history that the ereetion of such columns along roads was a eommon praetice of the Magadha rulers, whose empire lasted from about 320 b.c. to 450 A.D. It is impossible, here, to go into details with reference to Mr. Garriek's interesting researehes, nor need this be done, as they are to be printed in extenso with his drawings and measurements in the "Arehæologieal Report for 1880-1," whenever this will appear. It may, however, be stated that the general design is, simply, two irregular lines running N.W. from Mozufferpur to Nipal on the E., and from Allahabad to Nipal on the W.

In the Academy, we find a paper by A. W. Franks, Esq., F.R.S., read before the Soe. of Antiquaries, giving a general deseription of the Amravati Seulptures, lately transferred to the British Museum, but not offering. so far as we ean see, any new views on this subjeet, beyond the suggestion that they range over a period from A.D. 200 to A.D. 500 , whieh will not, we think, be generally aeeepted.- A notiee is also given of the "Histoire de l'Art dans l'Antiquité," by MM. Perrot and Chipirz, whieh is so far valuable that M. Perrot has, up to the present time, explored more fully than any other man eertain parts of Asia Minor. This work is coming out
in parts, of which 8 or 10 have appeared, and it may be stated that the illustrations are generally new, and could not have been produced without much labour and cost. Another book, of the same class, is in progress, that entitled, "Monuments de l'Art Antique," under the editorship of M. Rayet. Of this work, pt. 2 is out, and contains many plates of Greek monuments, with some of Egyptiau-all exeellently done. We wait, however, under part of this branch of study, to know the results of the recent researehes of Mr. W. M. Ramsay, which are, now, in progress: some notes of his journcys have been read at a recent meeting of the Hellenic Society. In the Academy, also (July 23), we find a very full and careful review of Mr. Rajendralala Mitra's "Antiquities of Orissa," by Mr. W. Simpson, a writer who, from his widely-extended travels, and long-practised skill as an artist, is peculiarly fitted for such a task. His judgment is generally favourable, at all events from the Art-side of the question. Mr. Simpson was not called on to discuss the writer's peculiar views on Indian Arehæology or Arehitecture, which are, certainly, not generally accepted by Western students.

Other papers in the same Journal are a review of Dr. H. A. Oldfield's "Nipal Sketches," a book of considerable value from the excellence of the author's own drawings, though very unsatisfactorily edited, and somewhat late in publication :-and a review by Dr. A. Burnell, of Mr. Burgess's "Arehæological Survey of Western India-Inseriptions from the Care-Temples of Western India," containing some useful suggestions.

In the Indian Antiquary Mr. Burgess has, under the title of "Is Bezarváda on the site of Dhanakataka?" reviewed the opinions expressed by Mr. Sewell in an article in the Journ. R.A.S. n.s. Vol. XII. pp. 98-109, and has expressed, in somewhat plain language, his dissent from them.-It may be added that Mr. Ashbee has presented to the Society of

Antiquaries a stone carring of an Elephant, ridden by two men, which was given to him by the keepers of a Jain Temple at Bangalore, in Mysore, in 1880 ; he exhibited, also, at one of the Society's Meetings, a photograph of a statue of Buddha still in front of the Temple, the top of the building reaching scarcely as high as the thigh of the image.

The Rev. Archdeacon Hose has contributed to the Journal of the Straits Settlements, No. 6, a paper "On the Ruins of Boro Budur in Java," accompanied with a note, from W. von Goldstein, the Minister of the Dutch Colonies. In this paper, it is stated that the first knowledge of this famous building was brought under the notice of Europeans by Sir Stamford Raffles, who directed Lieut. Cornelius, an Engineer officer, to examine and report on them. After many years, photography was adopted in 1844, with the view of obtaining correct representations of what still existed in situ, but the preparation of accurate plans and drawings was not undertaken till 1847, when M. Rochussen was GovernorGeneral of Netherlands-India, : in that ycar, M. F. C. Wilsen and M. Schumberg Mulder, of the Corps of Engineers, were appointed to make a general survey with sufficient drawings, a task which took up nearly, if not quite, five years-the general result being that, in 1871, eighteen years after M. Wilsen's drawings had been begun, and more than twenty-five years since Sir Stamford Raflles had first called attention to them, the whole scries of 393 plates was completed. Much difference of opinion has naturally arisen on the date of this Sacred Edifice, but these are questions to which we cannot here refer. It may, howerer, be observed that if Crawford was mistaken in attempting to fix its date so late as A.D. 1344 , Dr. Lecinanns was scarcely correct in giving it to the eighth or ninth ccutury of our era. Mr. Fergusson, on the other hand, for reasons set forth in his History of Indian Architecture, p. 646, is
inclined to place its commencement at least a century earlier. There can be little doubt that the original germinal idea of a Buddhist temple was a mound to contain a precious easket, in which some relic of the Buddha was enshrined. The paper then goes into details about Buddhism and its founder, which have been fully discussed elsewhere, and, besides, have in them nothing of any special or novel interest. All the evidence available goes to show that Buddhism was dccaying during the period of the last great Hindu Empire in Java,--that of Majapahit,-and that it disappeared, finally, when Islám triumphed over this last refuge of Hinduism, about A.d. 1400. M. Wilsen thinks, with much probability, that the injuries Boro Budur exhibits are mainly due to the religious wars between the Old and the New Faith. Mr. Bramund, on the other hand, attributes the partial destruction of this grand monument to the natural neglect into which it fell, after the success of Islam, to the powers of nature, earthquakes, the luxuriant growth of tropical regetation, and to the influence, respectively, of droughts and heavy rains. Further damage has, also, been done by the natives of the present day, who look on the Temple as an invaluable mine for building purposes, and by Europeans who, unable to remove the statues in their completeness, have not hesitated to chop off any heads, etc., they took a fancy to.

Indian Antiquar\%-The Indian Antiquary, which has now reached its eleventh year, under the able editing of Mr. Burgess, has been in nowise inferior to former years, and has been the vehicle for the publication of much useful and raluable information. Indeed, with the names of Colonel Branfill, Messrs. Beal, Bühler, Morris, Tawney, Sewell, Fleet, Oldenberg, Howorth, and Capt. R. C. Temple, as contributors to it, it could hardly fail to contain many interesting papers. A good many people, howerer, will think that
this Journal has been, of late, rather overdone in the matter of Folklore, a special subject which can only appeal to a certain class of students, and this but a limited one, while Mr. Howorth would, we think, do well to abridge the somewhat overwhelming learning he has devoted to the dreary history of the ancestors of Chinghiz Khan. Among the more interesting papers is one by Colonel Branfill (to whose valuable abilities as an Antiquary we have on former occasions had the pleasure of calling attention), "On Vijnôt and other old sites in N.E. Sindh," which have been recently carefully examined by Mr. Robertson, the Engineer of a portion of the Indus Valley Railway. Colonel Branfill himself became first acquainted with the place and neighbourhood when employed, last year, in the field work of the Great Trigonometrical Survey of India in N.W. Sindh. The general character of the architecture laid open to view by the excavations made on the site, and of which Colonel Branfill gives us two plates from his own drawings, exhibit a style of Hindu ornamentation, in all probability more or less local, as the same stylc, that is, the use of deep sharpeut incisions with a little superficial tracery, is in vogue even at the present day in Sindh. A great part of the buildings have been constructed of good red bricks, large quantities of which are found in the ncighbouring towns and villages, the place having, evidently, been used for years as a mine to supply building materials. That comparatively little stone has been met with, is probably duo to the fact that the temple in which, alone, it would be used, was a small one, and that all of this which was not buried deeply in the ruins, had been carried away long sinec for use or ornament. The general appearance is as if the town had been destroyed by a tornado, or an earthquake, and that the ruins, composed of mud, or sun-dried brieks, mixed with inflammable materials, such as timber and thatel, had then eaught fire. Vichnor is near "Vichava-pura"-M. Stanilas

Julien's rendering of Hiouen Thsang's "Pichen-po-pu-lo"the capital of the Province in the seventl century.-Coloncl Branfill, also, gives an account of two other places of autiquarian interest, Sarwahi (or Seorai) and Pattâu Minara.

To Mr. Walhouse, we owe a paper entitled "Scraps and Legrends of Folklore," containing a number of various stories, excellently told-the first being about a vast chasm said to exist in the bed of the great river Kâveri, at a seldom-visited locality, called the "Smoking-Rock," from a column of apparently white smoke, but, really of spraymist, which continually arises from the middle of the river, and floats away with the wind. Mr. Grierson, also, contributes a paper "On Maithila Folklore ; or, Vararuchi, as a guesser of Acrostics," taken frem the Katha Surit Sugara, Book I. ch. 5, which has been recently translated by Mr. Tawney, who, himself, prints a paper "On a Folk-lore Parallel," in which he points out the remarkable similarity between the story in Herod. iii. c. 118-20, of the answer to Darius by the wife of Intaphernes, and the words put into the mouth of Antigone by Sophocles (Antig. v. 909-912). The story is, really, part of the common heritage of the Aryan races, and will be found in the Uchchhanga Jataka, No. 67 of Fausböll's edition.-A good deal has been done for the promotion of the study of Buddhist remains. Thus Mr. Beal has given a further account of "Buddhist Pilgrims from China to India," with three plates, describing a stone covered with figures and inscriptions found at Buddha Gaya.-Dr. Oscar Frankfurter has written "On Buddhist Chronology;" Dr. Morris "On Buddhaghosa and Milindapanha;" and Mr. Axon "On the myth of the Sirens," with a supplementary note by Dr. Morris.

Mr. Narayan Aiyangar, also, has given a paper in which he points out, that, while the Buddhist temples are called Chaitras, those belonging to the Brahmanic system are never so named, though this word often occurs in the

Ramâyana, suggesting the possibility, if not the probability, that the great Epic is subsequent in date to the establishment of the Buddhist religion.-Mr. Sewell has written on the Swastika, in which he sums up many of the views that have been written by different writers on this vexed question, and declares that, for himself, he is inclined to accept, with Mr. E. Thomas, its connexion with the worship of the Sun. There are some good notices of books, as, for instance, of Prof. Douglas's "Catalogue of the Chinese Books in the British Museum;" of Mr. MacCrindle's "Ancient India as described by Ktêsias," with a reprint of the late Prof. Lasscn's review of the Reports of that Greek writer ; and of Major Jacob's Manual of Hindu Pantheism. Two interesting papers are also given by Mr. K. Raghunathji, "On Bombay Beggars and Criers;" and several by Mr. H. H. Howorth, "On Chinghis Khan and his Ancestors." A large number of inscriptions, interpreted by Mr. Fleet, Dr. Hoernle, Mr. Bhagvanlal Indraji, and others, will be noticed under Epigraphy.

It should be added that, during the last year, some other good work, more or less of an antiquarian character, has becn performed. Such is the excellent "Manual of the Nilagiri District in the Madras Presidency," by H. B. Grigg, B.A.; and the General Report of the operations of the Survey of India, 1879-80, chiefly in Northern and Southern Afghanistan and Beluchistan, but including, also, Coloncl Tanner's important surveys round Gilgit.

## General Progress of Oriental Studies.-Aryan Languages.-

 Sanskrit.-Many valuable reviews, essays, and books have appeared during the past ycar. Thus, in the Journal of this Socicty, Vol. XIII. Part 4, is a Sanskrit Ode addressed to the Congress of Orientalists at Berlin, Scpt. 1881, by Ráma Dása Séna, -with a translation by Paṇdit Shỵamaji Krishnavarma, of Balliol College, Oxford ; and another odeaddressed to the same meeting, by the Lady Paṇdit RámaBaí, of Silchar, Káchar, Assam, with a translation of the same by Monier Williams, Esq., C.I.E., D.C.L., LL.D., Boden Professor of Sanskrit at Oxford.-In the Transactions of the D.M.G. xxxy. 3, Dr. F. Bollensen contributes two papers "Zur Yeda-Metrik, dic Betonungs systeme des Rig und Samaveda": in xxxp. 4, also, are papers by Prof. R. Roth Ueber der Soma ; by Prof. Pischel, on different points in the Rig Veda, under the title of "Miscellanea;" and by M. Bloomfield, Das Grhyasaṃgrahapariçishṭa des Grobhilaputra. In xxxvi, is a further paper by Prof. Pischel on the same subject and under a similar title.-In the Indian Antiquar: (May, 1882), Mr. W. Goonetilleke gives a paper "On the absence of Guna change of Bhî in the Preterit."

The following books may be noted as having come out recently, if not strictly within the last year. The Dictionary of Mr. Anundoram Borooah, to which we bare already called attention, is now completed in three vols., with a prefatory Essay on the ancient Gcography of India. It should be added that Mr. Borooah's work has been very carefully reviewed by Prof. F. Max Müller in the Academy of August 13, who explains the severe tests to which he put it, his conclusion being that his Dictionary "supplies us, generally, with useful suggestions, and will form a safe and solid foundation for future labours in the same direction." Mr. Borooah is now, we hear, engaged on a comprehensive Sanskrit Grammar, with the especial view of explaining Vedic words.- We have, also, receired the Benares Sanskrit Series, a collection of Sanskrit works, edited by the Pandits of the Benares Sanskrit College, under the superintendence of the Principal, R. T. H. Griffith and Prof. G. Thibaut, No. 1. Siddhantatattva Viveka, a Treatise on Astronomy by Bhatta Kamalákara, Fasc. 1 :the late Prof. Benfey's Ueber des auslauternden $a$ in ná "wie" und ná "nicht:"—Böhtlingk, O., Sanskrit Wörterbuch in Kürzerer fassung, continuation pp. 161-301:-Foulkes,

Rev. T., Dáya Bhága, or Hindu Law of Inheritance according to the Sarasvati Vilása, Text and Translation.-The Desinámamálá of Hemachandra, edited with critical notes, etc., by Drs. R. Pischel and G. Bühler (No. xviii. of the Bombay Sanskrit Series).-Das Saptaçatakam des Hála, edited by Prof. Weber (Abh. D.M.G. vii. 4).-Hopkins, E. W., Inaugural Lecture on "The Mutual relations of the Four Castes according to the Mánavadharmaçástram."-Kaegi, A., Der Rig-Veda, die älteste Literatur der Inder, now, wc believe, nearly, if not quite completed.-Nalopakhyanam, or the Tale of Nala, Sanskrit text in Roman characters, with Vocabulary, Grammar, etc., edited by the Rev. Thomas Jarratt.-The Kadambari of Bána, edited by P. Peterson, pt. 1.-The Ramayana, pt. 1 (School Edition), edited by the same.-The Daivata-Bráhmana and Shaḍbingsha Bráhmana, with the Commentary of Sayanacharya, edited by Pandit J. Vidyasagara, 2nd ed.-Saussure, F. D., De l'emploi du génétiv absolu en Sanskrit - an Inaugural disertation. Steinthal, P., Specimen of Nayadhammakaha-an inaugural dissertation.

To these may be added, Whitney, W. D., Index Verborum to the published text of the Atharva-Veda, reprinted from vol. xii. of the Journal of the Amcrican Oriental Socicty. E. Scnart, Le Mahavastu-Texte Sanscrit publié pour la première fois, et accompagné d’introduction, etc., Tome 1. Das Oupnekhat-Die aus dem Veden zusammengefasstc Lehre von dem Brahm, translated by J. Mischcl.-Jacob, Major G. A., The Vedántasára, a manual of IIindu Pantheism :-Anundoram Borooah, Higher Sanskrit Grammar, or Gender and Syntax, a reprint from the author's Sauskrit Dictionary.-Die Vetátapañca vinçatika, with Çivadása's Tcxt, edited by Dr. H. Uhle.-Dr. Zachariac of Greifswald has, also, just published at Berlin an edition of the oldest known Sanskrit Dictionary, tho Sásvatakoska, based on a copy of an old palm-leaf MS., dated 1183 A.v., and of one belonging
to the Sanskrit College, Benares. In restoring the text the Editor has been mueh aided by many unpublished Dictionaries and Commentaries plaeed at his disposal by the liberality of the India Offiee and of the Government of Bombay. A earefully compiled Index completes the work. It is to be hoped that Dr. Zaehariae will ultimately give us a new edition of Heuaehandra's Anekártha-Sangraha, together with the newly-found Commentary, whieh he tells us, in a postseript to his Prefaee, p. xxxiv, is in his hands.

The following works may be notieed as in preparation: The Sarvardarsana Sangraha, edited by Profs. Cowell and Gough :-The Bhagavad-Gita, by the Rev. J. Daries, M.A.:-The Aphorisms of the Sankhya Philosophy of Kapila (originally translated by the late J. R. Ballantyue, Esq.), a new edition edited by Fitz-Edward Hall, Esq.:Prof. Monier Williams's seeond Edition of his SanskritEnglish Dietionary :-MM. Pisehel and Bühler's Deśinámamálá of Hemaehandra (the lst portion of which is already-out):-a nerr edition by Professor Kern of Leiden of the "Saddharmapundarika," of whieh Cambridge possesses the oldest MS. in Europe, of the eleventh century-a translation of which, it is believed, will be published in "The Saered Books of the East."

A prospeetus has been issued by Atmárán Kanoba, the proprietor of the Ganpat Krishnaji Press at Bombay, of an edition of the Siva Purána, hitherto unpublished, with a commentary by Rágárám Sástrí of Benares, aided by two other Benáres Paṇdits:-Die quantitäts versehiedenheiten in den Samhita und Pada Texten der Vedem, by the late Prof. Benfey, the last work he completed, before his lamented death :-Prof. Lanman, of Marvard University, has nearly ready for publieation a Sanskrit Reader, embraeing the first five chapters of the History of Nala, from the Mahábhárata, twenty fables from the Hitopadesa, six tales from the Thousand and One Nights of Kashmir, a selection
from the Laws of Manu and the Rig-Teda, and chapters from the Sútras, which give the wedding and burial ceremonials:Miss Lee and Mr. John Bury, pupils of the late Prof. Benfey, are at work on a translation of the Mahábhárata. Prof. Whitney is about to edit the Talava Kára Bráhmana, which Dr. Burnell was fortunate enough to discover in 1878 : -and Sir L. Jackson writes as follows: "This Grammar (Kalup Vyakum), which, next only to the Panini, is the most extensive and lcarned of Sanskrit Grammars, and the only onc studicd in Eastern Bengal, has, strangely enough, never been printed. It abounds with most valuable and learned Commentaries, but, there being no printed edition of this book, students have had to write out both text and Commentaries from the MSS. The result has been that these valuable Commentaries have been gradually falling into oblivion, and were almost on the point of extinction
I was induced, at the request of several students and Professors of Grammar, to undertake the publication of this book, with three of the leading Commentaries. The undertaking has been attended with the greatest difficulties, owing to the different readings and clerical errors with which the MSS. abound . . . . As it was intended mainly to bencfit the students of Grammar in E. Bengal, who, up to a recent date, were ignorant of the Devanagari character, I commenced . . . in the Bengali character, and was therefore obliged to continue in the same eharacter throughout, although in the mean time the students have almost all learned the Devanagari character.
"A ycar after I had sent the work to the press I saw that an edition of the book had been issued by Prof. Egreling, which, however, gives only the Sutras and Vrittis, without the Commentaries, cte."-Dr. Bhandarkar has succeeded Professor Kiclhorn as Sanskrit Professor at Poonah.

Hindi.-In the Calcutta Review (Oct.) is a paper by Mr.

Grierson, the sequel of one published by him more than a year ago with the title " $A$ Plea for the People's Tongue," urging that the language of Bihar should, in future, be ealled Bihárí, as more appropriate than Hindi, which is not the language of the district.

Maithili.-The Asiatic Soeiety of Bengal proposed to publish during the last year, but as a Supplement to their Journal for 1880, "An Introduetion to the Maithilí Language of North Bihár, eontaining a Grammar, Chrestomathy and Voeabulary," drawn up by G. A. Grierson, B.C.S., but, owing to the delay in printing, the Chrestomathy and Vocabulary, though in the press, hare not yet reaehed us. Three alphabets, it would seem, are in use in the country, Devanagari, the least eommon, Maithili, and Káyathí. Of these, the former is that of the Maithil Bráhmans; the latter, that of all edueated persons, not Bráhmans. The Káyathí is a eorruption of the Devanagari, but has the adrantage of being written with great faeility and of being perfeetly legible.

Bengali.-Dr. Rajendralala Mitra has recently exhibited at a meeting of the Bengal Asiatic Soeiety, a MS. in the Bengali eharaeter, known as Bhaṭti-Kárya. He showed by quotations from different MSS. that the speeifie name is Raranabadha, and the author's name was Bhattti, not Bhartrihari, and, further, that he flourished in the middle of the fourth eentury at Balabhipur, in Gujarat, during the reign of Sridhara Sen, of the Balabhi dynasty. Of modern morks that hare issued from the press of Bengal, may be notieed the following:-Phula Bála (Lyric poems), by Debendra Nath Sen :-Banga Sáhitya o Banga Bhásá Bisaye Baktrita, an essay, read before the Daeea College, by Gangá Charan Sarkár, giring a rapid but clear surrey of the various epoehs of Bengali literature : -Kábya Sundari, by Purna

Chandra Basu, a eritical estimate of the female characters in parents, all of these having contributed to its treasure of the novels of Bábu Bankim Chandra Chatterji, mueh in the style in whieh Mrs. Jameson has analyzed Shakepeare's heroines :-Nalini, a monthly Journal and Review, likely to prove a useful work, from the manner in which the articles on Seience are handled:-Sarat Iswara Chikit-sa, by Dr. Jadunath Mukherii-an excellent medieal Essay on the treatment of fever :-Udásin Satyasrabar, or Travels in Assaman interesting work as showing great observation and good sense on the part of the writer :-Jagannath Tarakapanchánan Jiban Brittá, by the late Uma Charan Bhattá-ehárya-aneedotes of the great Indian Lawyer:-Bhárat Mahilá-a Prize Essay, on the highest ideal of female eharaeters as set forth in early Sanskrit works :-Madirá, by Bhubaneswar Mitra-a Treatise on the history of liquors and their effeet on the human eonstitution:-a Bengali Primer in the Roman Character, by J. F. Browne :-Bharat Kosh, by Ráj Krishna Raya, Parts I., II. and III., the first Dictionary in Bengali, combined with the view of furnishing information about the Vaidie, Pauranie and Tantric Theology, ete.:-The Rámáyan, translated into Bengali verse by Ráj Krishna Raya, which may be considered to be a truly National work:-Banga Mahílá, by Rajendra Náráyan Ráya:-and Bhrantinirod, by Kali Prasanna Ghosh.

Sikh.-Dr. Trumpp, in his volume "Die Religion der Sikhs naeh den quellen dargestellt," a Manual of the Sikh Religion by the best living anthority, points out that the aecounts of Nanak's system, in modern works in the Panjab, eannot wholly be relied upon. In his preface he expresses his intention of publishing hercafter a eomplete Grammar and Dictionary of the Granth.

Balochi.-The Bengal Asiatic Society has published an
extra number of their Journal to contain Mr. Longworth Dames's "Sketeh of the Northern Balochi Language." Mr. Dames, as stated last year, is well known as a collector of Local Balochi Poetry:

Gujarati.-Mr. Behramji M. Malabari, a well-known Parsí poet and prose writer, has published "Gujarat and the Gujaratis - Sketches from Life." The same learued scholar has taken so much interest in Professor F. Max Muller's Hibbert Lectures, that he has himself prepared a translation of them into Gujarati, which is said to be ready, though it has not, we belicve, been actually issued from the press. Moreover, he has formed an association for the translation of the same lectures into Marathi, Bengali, Hindi and Telugu. The Marathi and Bengali translations are far adranced. It is further stated that Pandit Shyámaji Krishnavarma, of Balliol College, has undertaken the Sanskrit translation.

Tibetan.-Mr. Jaeschke, the well-known Moravian Missionary at Lahaul in the Panjab, has, at length, published in the English language his long-delayed Tibetan Dictionary, a work, unique in its kind, and supplying a new place of departure for Tibetan study. It is only just it should be known that this is one of the long series of valuable works which have been brought out at the expense of the Government of India, whether in the country itself or at home; and, further, that it could not possibly hare been printed except by their munificent patronage.

Hindustani or Urdu.-Mr. T. J. Scott has given, in the Calcutta Review (July, 1881), an interesting account of "Hindustani Poets and Poetry." In this paper, the writer poinus out that Urdú, although still in an early stage of existence as a language, has great fertility of resource,
being the descendant of Sanskrit, Arabic, and Persian poetic power. The metre is taken directly from the Persian. Mr. G. Small has published a Laskari Dictionary, or Anglo-Indian Vocabulary of Nautical terms and phrases in English and Hindustani. Mr. Pincott is about to publish Alif-Laila wa-zubáni Urdú (the Arabian Nights in Hindustani, but in Roman transcription). The " General Advices" read this year at the Annual Meeting of the Society of Friends have been translated into Hindustani for the use of a small colony of Native Quakers in the Hoshangabad District. The late Mr. S. W. Fallon's New English-Hindustani Dietionary is proceeding satisfactorily, seven parts having already come out.

Pali, Sinhalese and Burmese. - In the Athenæum for July and August, 1881, a slight controversy has arisen between Drs. Frankfurter and Fausböll on the subject of the latter's "Játaka." In his first letter Dr. Frankfurter states that, besides the copy of the Játaka "without the Commentary," noticed in Dr. Forehhammer's List, two others are montioned by L. de Zoysa in his Catalogue of the Government Oriental Library at Colombo, while there is a similar one in the Library of the British Museum, purehased in 1866. Dr. Fausböll, however, does not seem inelined to change or modify the title of his work, in the direction suggested by Dr. Frankfurter.

In the Aeademy for Nov. 12, Dr. Morris gives a further account of the conversation between Milinda and Nägasena; and, in a later letter, Dec. 24, a paper entitled " An Oriental Bestiary," wherein he points out that in the Milinda-paña there is a curious series of siniles, metaphors, and " moralisations" on animate and inanimate objects, not unlike those we find in our Western "Bestiaries." They are contained in the Issatthassa-pañha section (pp. 363-419) of the Páli text. Dr. Morris has also reviewed, at great length (Acad.

Oct. 1), the "Buddhist Suttas," translated from the Pali by T. W. Rlyss Davids, and forming one of the volumes of the "Sacred Books of the East."-The following books may be noticed as published during the last year, viz. the third and fourth rolmmes of Dr. Oldenberg's Vinayapitakam :Mr. II. S. Olcott's Buddhist Catechism, printed at Colombo, which is stated on the title-page to have been " approved and recommended for use in the Buddhist Schools of IIikkaduwa Sumangala," the learned High Pricst of Adam's Peak and the Principal of the Widyodaga Parivena, the training college for Buddhist recluses in Ceylon. It is, further, announced that Dr. Frankfurter is preparing a Páli Handbook, eonsisting of an elementary grammar, reading book, and glossary. For the reading book, Dr. Frankfurter has selected the so-called " Parittaṇ," a book compiled in Ceylon from diffcrent parts of the "Sutta Pitaka," whieh is much used as a derotional book in Ccylon as well as in Birma. Dr. Hermann Jacobi of Münster is editing the Acáranga Sutra, one of the Sacred Books of the Jains, for the Páli Text Society.

We have also to note for Sinhalcse the appcarance at Colombo of Parts 1 and 2 of a Scientific Grammar of the language (all in Sinhalese), by the Rer. S. Coles; also a Sinhalese-English Grammar and Exereise book on the Ollendorf system, by S. de Silva; and Swabháshá ratna-dámaya, a reading book, serring as an Introduction to the study of classical Sinhalese literature, by the Rer. C. Alwis.-Two Pali publications have bcen issued in Ceylon by the Buddhist priest Vimalasara; the one, Simálakkhana Dipani, a controversial work in prose; the other, Sásanaransadípo, a history of the Buddhist Church, in verse. A large number of Pali books have recently appeared in British Birma-of which the following may be noted: Lanká sásana visuddhikatha, a controversial work; two different reeensions of the Dhammapada, with Birmese commentaries; Abhidham-
mattha sangrahas, with Birmese commentary; Parittam and Mahaparittam, with Birmese translations; of the latter work no less than three different editions have been issued. A fourth edition of this popular book contains, also, the Lokániti and a Pali-Birmese Glossary. In Birmese, too, we have to record among a number of new publications a critical edition of Temijatakavatthu by Prof. Forchhammer ; an edition and English translation, with glossary, of the "Antecedents of Princess Thudammatsari" ; a collection of popular songs (Mahágitamedáni) ; and a law-book (Yinichhayapakásáni).

Bibliotheca Indica.-Twenty fasciculi of this Series have been published during the last year; belonging to thirteen different works, three to the Arabic-Persian and ten to the Sanskrit Series. Of these, two in the Sanskrit and one in the Arabic-Persian series have been complcted, and four, all in the Sanskrit series, have been commenced. The former are the Taittiriya Samhita and Tarikh-ulKhulfa; the lattcr are the Patánjala Yoga Sutra, the Apastamba Srauta Sutra, and the English translation of the Lalita Vistara. One work, the Vishṇu Smriti, has been both commenced and completed during the year. Among these publications are four English translations, viz. those of the Taríkh-ul-Khulfa, the Katha Sarit Sagara, the Lalita Vistara, and the Pátanjala Yoga Sûtra. There are also ten text editions, two in the Arabic-Persian and eight in the Sanskrit. Of the Pátanjala Yoga Sûtra both text and translation are being published pari passu. [For more details on this subject sce Journal of the Bengal Asiatic Socicty, Proccedings, Feb. 1882, p. 27.]

Sacred Books of the East.-The following works in this Scries have been issucd during the last year :-

Vol. VIFI. The Bhagavadgita, with the Sanat Sugatiya
and the Anugita. Translated by Keshinath Trimbak Telang, M.A. 1852.

Yol. NII. The Satapatha Brâhmana according to the text of the Mâdhyandina School. Translated by Prof. Eggeling. Part 1, books 1 and 2. 1882.

Vol. NIII. Vinaya Texts. Translated from the Pali, by T. W. Rhys Davids and II. Oldenberg. Part 1. The Mahavagga, i.-iv. 1881.

Vol. NIV. The Sacred Books of China. The Texts of Confucianisın. Translated by Prof. J. Legge, D.D. Part 2. The Yî King. 1882.

Indian Institute.-The Council are glad to report that the progress of the Indian Institute at Oxford, though slower than many would wish, is yet steady in its advance, and that the Boden Professor of Sanskrit, to whose unwearied adrocacy it owes its first commencement and much of its present success, is able to report farourably on its present condition. The site at the east end of Broad Street, adjacent to the Bodlcian Library and, one of the very best sites in Oxford, has been secured at a cost of $£ \sim, 800$, a sum which, considering the excellence of its position, cannot be thought cxcessive. The building is now in the course of erection, from desigus by Mr. Basil Chanpneys.

The total sum received from contributors, and invested in the names of the three Trustees, Sir Edward Colebrooke, Bart, M.P., Sir Thomas Brassey, K.C.B., M.P., and the Boden Professor of Sanskrit, with interest and profit on investments, amounts to $£ 18,73515 \mathrm{~s} .11 \mathrm{~d}$.; the expenditure for hire of rooms, Secretary's work, purchase of books, printing of circulars, postage, etc., having only amounted to about £ 100 per annum during the last seven years. It can hardly be expected that the present contributions will complete more than half of the proposed building; but it is to be hoped that the rulers of two hundred and fifty millions of

Hindus and Muhammadans will not permit the framework of such an Institution, at length actually set up in a great centre of education, to remain half finished, and its objects to be only half earried out, for want of the requisite pecuniary aid.

The Culcutta Reriew for the last year has many good papers and essays, of which the following may be specified :-Thus, Mr. II. G. Keene has written on "Codification for India," "India in 1880," "A new study of the origin of Christianity," and "Moral Cholera":-Mr. R. N. Cust, "The Languages of Afriea":—Mr. D. C. Boulger, "The Indian Bayard" and "Tibet and the way thither":-Mr. J. C. Rodgers, "Indian portable Antiquities":-Captain R. C. Temple, " A Song about Sarhi Sarwar":-Mr. Thomas Edwards, "Henry Louis Vivian Derozio," three papers:-Mr. E. Rehatsek, "The Holy Inquisition at Goa," "The life of Jesus aceording to the Mohammedans," "Historical Sketeh of Portuguese India," and "How the Portuguese obtained a footing in the Island of Diu ":-Mr. Syamaeharan Ganguli, "A Universal Alphabet and the transliteration of Indian Languages":-Mr. H. C. Irvine, "The Famine Commission on Tenant right in Upper India":-Mr. E. E. Oliver, "The Financial aspects of Indian Irrigation ":-Mr. W. R. Hamilton, " Develop-ments":-Mr. M. Macauliffe, "The Sikh Religion under Banda and its present condition";-Mr. W. Lec-Warner, "Persecution in the Westeru Ghâts":-The Rev. T. J. Seott, "Hindustani Poets and Poctry":-Jogendra Chandra Ghosh, "Our Joint Family Organization":-Mr. Arthur Harington, "Eeonomic Reform in Rural India":—and Mr. G. W. Clive, "Sir Thomas Roe and the Court of Jehangeer." Speeial articles on lauguages, etc., are noticed under their respective heads.

Semitic Literature-Mebrew and Chaldee-There has been a steady progress in this branch of Oriental learning during
the last year, but there is not quite so much worthy of special report. We shall, however, notice some of the varions lissays and Reviews which have appeared in the leading literary Journals. Thus, the Athenrum notices that Rabbi N. Rabbinovicz has been able to continuc satisfactorily his "Varix lectiones in Mishnam et in Talnud Babylonicum," with the treatise "Baba Bathra," and the variations of the MSS. at Munich, in the Bodleian, and Yatican. In his preface the author gives a description of all the Talmudic MSS. now in the Vatican:-Much has been also done in the editing of the posthumous works of M. Linzzato, to which attention has been called in previous reports. The chief work now accomplished would seem to be a philosophical dissertation on the fundamental principles of the Law of Moses-a collcetion of eighty-one Hebrew Poems and Liturgical picces by writers of the elcenth and twelfth centuries-and a catalogue of Luzzato's scattered articles and letters drawn up by his son :-The first volume of Berliner's critical edition of the Targum of Onkelos is finished, but $\pi \mathrm{e}$ understand will not be published till the second is ready: this is, however, in the printer's hands:-Herr Chaim M. Horowitz has just brought out a fasciculus of small Midrashite works, and proposes to publish a monthly periodical on the Agadic Literature. In these papers, he will give critical editions, with introductions of the small Midrashim edited by M. Jellinek in his Beth-ha-Midrash, together with a number of inedited Agadic pieces. Much has. also, been done recently in illustration of the works of the famous Abraham ben Ezra, who was born at Toledo towards the close of the eleventh century, and was a voluminous writer on all sorts of subjects more or less connected with Sacred Literature. Thus we know that he commented on almost all the Books of the Old Testament - on some of them twice; composed Grammatical treatises, wrote on Astronomy, Astrology, and

Mcdicine; but, for some reason or other, does not scem to have paid any attention to the Talmud or Midrash.

Within the last decade Dr. Friedlander has made known to scholars, in his excellent "Essays on the Writings of Abraham ibn Ezra," his exegetical skill and philosophical opinions - while Dr. Steinschneider, in his monegraph, "Abraham ibn Ezra zur geschichte der Mathematischon Wissenschaften im xir Jahrhundert," has giren a clear exposition of his mathematical productions and astrological writings. It is worthy of remark that the latter were translated into Latin as early as the thirtcenth century, and were much read by Christian scholars of that period. Dr. Bacher has recently issued a monograph, "Abraham ibn Ezra als Grammatiker-ein beitrage zur Geschichte der Hebräischen Sprachwissenschaft," which was originally published as a programme of the Rabbinical school of BudaPesth. Dr. Bacher, at the same time, mentions an unedited grammatical work by Ibn Ezra, called Yessod Diqdûq, of which he gives large extracts from two MSS. with reference to the Medirval authors who made use of it. An English life of Ibn Ezra is, we hear, to appear in the miscellaneous volume of the Third series of the Publications of the Society for Hebrew Literature.
M. Léon Sée has published the first part of a translation of Jewish Chronicles, under the title "La valléc des pleurs, Chroniques des Souffrances d'Israël depuis la dispersion jusqu'à nos Jours-par Maître Joscph Ha-Cohen, médecin d'Avignon, 1574. It is curious that the chronicles written by the Jews of their sufferings during centuries are but few. In fact, only three of these seem to have come down to the present day, viz. that by Samuel Usque, in Portugucse, cutitled Consolaçon as Tribulaçoes de Fsracl, by Judah ibn Vosga ; Shebet Ye-hudah, the Rod of Judah; and this one by Joseph Ha-Cohcu, who is one of the few writers who have attempted monographs in Hebrew on other subjects
than those belonging to their own race. Some of these are inedited, as, for instance, that of the Diseovery of Aineriea, and of Celebrated women. The Aunals of the Freneh Kings and of the House of Othman were, as is well known, partly translated into Latin, and entirely into English, by Mr. Bialloblotsky, for the Oriental Translation Fund.-Also the late Dr. Wiener published, in 1857, the "Emeq-hab-Bakha," or Valley of Weeping, with a German translation. Since this period, the history of the Jews has been elueidated by many new documents, the late Dr. Jost and Prof. II. Graetz having paid especial attention to the History of the French Rabbis. Mr. Séc has taken advantage of the latest researches, and has much improved on $\mathrm{D}_{1}$. Wiener's translations. The notes to his translation are instructive, and the Index to persons and places unusually complete.-\I. Derenbourg's edition of the Anonymous Hebrew Translation of Kalila wa Dimnah, from the unique Paris MS., together with that by Jacob ben Eleazar, from an equally rare MS. in the Bodleian Library, will be shortly ready.-A valuable collection of MSS. relating to the Mendelssohn fauily has been recently made in Berlin, consisting of two thick volumes-the one an "Excerpt" book of Moses Mendelssohn ; the second, a Kol-lectaneen-buch für das Jahr 1783, containing, inter alia, notes on his work on Rousseau, and copies of two letters addressed to Lessing.

A very interesting review has been given of the late $H$. ron Ewald's Commentary on the Books of Haggai, Zakharya, Ma'laki, Yona, Barûkh, and Daniel, which seems to have been carefully edited by Mr. J. Frederick Smith.—M. James Darmesteter has recently brought out an interesting Monograph on the Jews, entitled "Coups-d'œil sur l'histoire du peuples Juifs," in which he gives a lively and summary picture of the different phases of Jewish History and literature, from the earliest date to the present time, without, howerer, entering into details.-The Rev. J. M. Rodwell
has followed up his Translation of Job, by one of Isaiah, in which he has shown conspicuously his knowledge of Semitic literature.-Mr. Davis's notice "Of the Mediæval Jews of Lincoln," in the Archæological Journal, is interesting as the result of researches among the Jewish deeds called Shetur: his identification of Jewish names in the vernacular, with probable quotations in Hebrew documents, is well done, if not altogether satisfactory.-Mr. Hirschon has published another work, which he calls "Treasures of the Talmud," but it may be doubted whether this work will increase any reputation he may enjoy as a translator or scholar. Dr. Graetz, of Breslau, has brought out his longexpected "Translation of the Psalms," and a second volume is to follow containing his Introduction and Commentary.

The Rev. Dr. Wickes has published an important work "On the accentuation of the Three so-called Poetical Books of the Old Testament, the Psalms, Proverbs, and Job." The value of these accents, as he justly puts it, is, that "they help us in the most effective way possible to the understanding of the Text, as they supply the mcaning which Tradition among the Jews has assigned to it." Dr. Wickes's work, though only 120 pages in length, must have involved the labour of years-indeed, it was only possible for him to arrive at an intelligible conclusion, by collating the best accessible MSS., written in the various lands where the Jews have sojourned, in the East, Spain, France, Germany, and Yemen, the MSS. of which country have only recently become availablc. Dr. Wickes's treatise is, also, of value for the history of Jewish Grammar ; as he has becn able, for the first time, to give complete lists of the different denominations of the accents used in the various Jewish schools, and, also, those found in the marginal glosses called "Massorah," with explanations from the Syriac and Arabic. In his Appendix, he shows that the IIcbrew treatise, entitled Morayyath-haqQoré ("Indication to the Reader'"), is the work of an anony"
mous writer, who lived about 1100 A.D. A part of the original work has bcen recently brought from Yemen by M. Shapira, and is now in the British Museum. Dr. M. Jastrow, Rabbi of Philadelphia, is, we hear, engaged on a Talmudic Dictionary in English.

In the Revuc Critique (No. 38), MI. Neubaner has reviewed at some length M. Woguc's "Histoire de la Bible et de l'Exegèse Biblique"; and M. Wogue replics to this review in No. 43. M. Vernes notices briefly the 12 th part of Dr. Dillmann's "Kurzgefasstes Handbuch zuin Alten Testament"; and M. Haléry, in more detail, Delitzsch's "Wo lag dic Paradies?" In a recent number of the Academy, Mr. S. R. Driver revicws, under the head of "Recent Hebrew Litcrature," Dr. F. Weber's System der Alt-Synagogalen Palästinischen Thcologic aus Targum Midrasch und Talmud. There are, also, notices of Dr. W. Wickes's treatise on the Accentuation of the three so-called Poetical Books of the Old Tcstament, Psalms, Proverbs, and Job;-of M. Bacher's Abraham ibn Ezra als Grammatiker (to which we have already referred) ; - of Dr. August Müller's Outlines of Hebrew Syntax ;-of Dr. E. König's Historischkritisches Lehrgebaude d. Mebraische Sprache (a very valuable and complete work) ;-and of Mr. W. N. Burgess's Notes, chiefly critical and philological, on the Hebrew Psalms.

From the Academy we learn that Dr. Wünshe is making good progress in translating into German the Midrash Echa Rabbati, being the Haggadic exposition of the Lamentations of Jeremiah;-that Dr. Bernhard Stade's Geschichte des Tolkes Israel is steadily advancing;-and that MI. Renan is about to publish a French translation of Ecclesiastes with elaborate notes. This work is, we believe, now out.-Dr. Ginsburg has also pointed out the great value of some of the MISS. which M. Shapira has brought from Arabia, and which the British Museum has acquired.

The new Zeitschrift für die Alt-Testamentliche Wissen-
sehaft eontains some valuable papers by Drs. Stade, Hollenberg, and Meyer ; and an account by Dr. Harkary of the MSS. lately added to the Library of St. Petersburg. In Dr. Graetz's Monatsehrift are many minute investigations, which will be valuable to the future historian of Judaism, by Drs. Rosenthal and Graetz.-In the Theologisehe Tijdschrift are full reviews of Weber's Theology of the Targum, Midrash, and Talmud, and of Castelli's Edition of Donnolo's "Sefer Yezira." -In the first No. of the Aneedota Oxoniensia is a Commentary of the Eleventh Century on Ezra and Nehemiah, by Rabbi Saadiah, edited from three MSS. in the Bodleian, by Mr. H. J. Mathews, of Exeter College.

A recent number of the Jewish Chronicle gives a remarkable list of the English and Continental works which have been translated into Hebrew within the last few years. Among these may be mentioned the voluminous works of Josephus, Aristotle's Ethics and Euclid, the Inferno of Dante, Faust, Hermann and Dorothea, Nathan the Wise, Paradise Lost, The Pilgrim's Progress, Lord Beaconsfield's Alroy, and many parts of Ossian, Gay, Young, Goldsmith, and Pope: euriously enough, the Koran has been only in part translated.

In the Proceedings of the Bibl. Arehæol. Society is a very interesting letter from Mr. A. Frothingham, Junr., on a Hebrew Inscription found in a Mosaic on the tomb of Galla Placidia, built a.d. 432-440. This inseription consists of the words "Adonai," "Lord"-formed of white eubes, while those of the Cross and nimbus of the figure of Christ are gilt. This is probably the oldest known Hebrew inscription. Before the same Society, the Rev. A. Löwy read a raluable essay entitled "Notices eoneerning Glass in ancient Hebrew Records." In the D.M.G. xxxv. 2, 3, Dr. Bickell has a paper entitled "Die Hebraische Metrik";-and Dr. Goldziher, in D.M.G. xxxv. 4, reviews at considerable length the Kitab-alAmanat, by Sa'adja ibn Jusuf, as edited by Dr. Landauer.

Among miscellancous books published during the last twelve months, the following may be mentioned. There may be some others, which have eseaped our notice:Sehulbaur, M., Deutseh-Hebraisehes Wörterbuch ; Müller, J., Reponses faites par des Rabbins Francaises et Lorrains du xi. et xii. sièeles; Konig, F. E., IHistoriseh-Kritisehes Lehrgebaude d. Hebr. Sprache, 1 Halfte; Lederer, P., Lehrbuch zum Selbsts-unterricht d. Babylon Talunud, 1 IIeft; Lery, J., Neuhebraisches u. Chald. Wörterbuch über d. Talmudim u. Midraschim, 14 Lief.; Nathan, Plenum Aruch Targum Talmudico-Midrasch verbale et reale Lexicon, Band iii. 1, 2 ; Singer, A. u. W., Hamadriseh Talmudisehe Chrestomathie für d. ersten Unterricht in Talmud, Pressburg, 188:2; Stier, G., Kurzgefasste IIebraische Grammatik für Gymmasien; Jedesehi, M., Thesaurus Synonimorum linguæ Hebraicæ cum dissertatione de corum vi, quoad Etymon atque usum in Biblicis Libris ; Yosen, C. H., Kurze anleitung zum erlernen d. Mebraisch-sprache für g.gmnasien; Wijnkoop, Durehe Hannesiqah, sive leges de accentus Hebraico Lingur ascensione; Veldez, Juan de, El Salterio, traduzido del Hebreo; Ballin, Ada S. and F. L., Hebrew Grammar, with exercises selected from the Bible: the first Annuaire de la Société das études Juires has recently appeared in Paris.

Arabic.-There has been no falling off during the last year in the number of essays and reviews, etc., bearing on A rabic subjects, which have been printed in various papers and magazines, or in the books issued from the press, whether at home or abroad. Thus, in the Athenæum there is a long and very able review of Dr. Badger's vast "English-Arabic Lexicon," in which his seholarship, judgment, and elaborate researehes are duly praised.-We learn from M. Vambéry (in the same Journal) that the young and accomplished Hungarian scholar, Dr. J. Goldziher, has brought out, with the sanction of the

Academy of Buda-Pesth, "Az Islam," a series of papers in which Islamism is shown in its real character as the Religion of the inhabitants of the Desert.-Dr. Houtsma, of Leyden, is carrying through the press a new edition of Yakuti, and the third vol. of Dr. Pertsch's Catalogue of the MSS. at Gotha is now completed.-We hear that the Trustees of the British Museum have purchased, for somewhat more than $£ 800$, the most important of the MSS. which M. Shapira has brought from Arabia, and that the Bodlcian has, also, bought some of them.

In the Academy, is a long and full review by Mr. W. Robertson Smith of Dr. W. Spitta-Bey's Grammatik des Arabisches Vulgar-Dialektes von Aegypten, in which he points out the value of Dr. Spitta-Bey's labours, as offering the amplest and most accurate account as yet put togcther for the local languages of Cairo-long years of residence in the Arab quarter, great facilities for observation, and an unflagging industry, having enabled him to bring to completion a very useful work.-There is also a notice of Dr. Hartmann's Arabischer Sprachführer für Reisende, which he has contributed to the Meyer-Series. This book is a remarkable example of a multum in parro, containing, as it does, a grammar, a large number of useful cxamples, and a German-Arabic and Arabic-German vocabulary, running to nearly 400 pages. Dr. Hartmann, who is ChancellorDragoman to the German Consulate at Beirut, has, in this work, given two forms (with differing types) for cvery word, viz. the one spoken in Syria and that in Cairo. Dr. Dieterici has, also, completed (the commencement of the work was noted last year) an Arabic and German Handbook to the Koran and to the Arabic fables, which he has alreadypublished under the title of "Thier und Menseh;" but, mercly for the purpose of explaining the words of the Koran, Major Penrice's work is sufficient.-Mr. Stanley Lane Poole has reviewed Prof. E. H. Palmer's Arabic Manual, which
he thinks may serve to fill a gap, but is eapable, also, of being much improved.-Dr. Badger supplies an interesting letter headed "Arabie Journalism," in which he states that the Arabic Al-Jawaib has been permitted to reappear at Constantinople after long suspension, adding that the prineipal articles in the paper are an elaborate notice of the origin and progress of the Wr between the French and the Arabs of Tunis, and of the Quarantine regulations in Egypt against the spread of Cholera from the Red Sea.-Dr. Badger, also, contributes a letter on Mr. Payne's proposed Translation of the whole of the " 1001 Nights," and Mr. Hutt and Dr. W. Wright give further letters on the same subject.-Dr. Badger, also, notices at considerable length Mr. Howell's (of Allahabad) Grammar of the Classical Arabic Language, of which the second and third parts, "On the Verb" and "On the Particle" respectively, have been printed first. Dr. Badger gives the writer high praise for the persevering industry, critical judgment, and thorough knowledge displayed in this work.-Mr. Hormuzd Rassam supplies a note explaining how the word "Telegraph" is rendered by the Arabs of Mesopotamia.

In the D. M. G., in vols. xxxy. pts. 2, 3, 4, and xxxvi. pt. 1 , are several articles bearing on Arabic subjects, such as the following :-By A. Socin, Der Arabische Dialekt von Môsul und Mârdîn; by the late Dr. Loth, On Tabari's Koran Commentar ; by A. Socin, Zur geographie des Tûr 'Abdin; by M. Klamroth, Ueber den Arabisehen Euklid; with a review by M. Ign. Goldziher of Landauer's Kitâb Al-Amânât; and, by the same scholar, one of M. Spitta-Bey's Gramm. d. Arab. Vilgar dialectes u. Aegypten.

In the Journal des Savants, Feb. 1882, is an excellent review by M. Renan of a work published a short time ago by MM. Joseph and Hartwig Derenbourg, entitled "Opuscules et traités d'Aboul Walid Merwan ibn Djanah de Cordove. Texte Arabe et traduction Française." -In the

Revue Critique are notices by M. Rubens Duval of E. Prym and A. Socin's "Neu Aramäische Dialect des Tur 'Abdin," Arabic text and translation, under the title "Syrische Sagen u. Märchen aus dem Volksmunde gesammelt und übersetzt" :-a notice by M. Stanislas Guyard of M. Hartwig Derenbourg's edition of "Le livre de Sibawaihi, traité de grammaire Arabe par Sibouya dit Sibawaihi ; texte Arabe, publié d'après les MSS. du Caire, de l'Escurial d'Oxford, de Paris, de St. Petersbourg et de Vienne":-a review, in two successive articles, by M. Hartwig Derenbourg, of Tome ${ }^{\text {er }}$ of Dr. W. Pertsch's "Katalogue die Arabischen Handschriften der Herzoglichen Bibliothek zu Gotha," vols. i.-iii. 1878-81.-Dr. De Jong, we hear, has undertaken to edit and publish the portion of Tabari which contains the life of Muhammad, prepared by the late Dr. Loth.

Of individual books which have, more or less, come out during the last year, the following may be specified, but there are probably others we have not noticed: Arabic Manual, by E. H. Palmer :-Alif Laila, or Book of Thousand Nights and One Night, in Arabic, to be completed in four vols., of which two are out:-a new edition of Prof. Dozy's Recherches sur l'histoire et la littérature de l'Espagne, 2 vols.:-a new edition of Prof. Dozy's History of the Almohádes, 1 vol.:-Mackuel, L., Manuel d'un Arabisant ou recucil de pièces Arabes, $2^{\text {do }}$ partie, Alger: - an English-Arabic Dictionary and an Arabic-English Dictionary, by M. Stcin-gass:-a new part of Tabari has recently appeared at Leyden, containing the end of the section which M. Guyard had undertaken, and the commencement of that of M. de Goeje :-M. Scignette has translated into Arabic "Le Code Penal," by order of the Government of Algiers.

A few papers in other Journals, not Oriental, may be mentioned: On Arabic Humour, by E. H. Palmer, in Temple Bar, June, July, August, September, and in the Times, Sept. 30, Oct. 1; by Dr. Badger, Ou the Controversy
about the Ottoman Khalifate (Academy, March 26), and Mussulmans of British India, Times, Jan. 3, 1882 ; by W. S. Blunt, The Future of Islam, Fortnightly Review, Aug. Oct. Nov. 1881, Jan. 1882 ; and by Colonel Yule, C.B., On Ibn Batuta, Encycl. Britann. vol. xii.

Syriac.-In the D.M. G. xxxv. 2 and 3, Prof. Noldeke reviews M. Georg Hoffmann's "Opera Nestoriana, Syriace":Dr. Schiller-Szinessy makes a few remarks on Mr. G. Bickell's "Bcrichtigungen zn Cyrillonas."-M. F. P'ractorius adds a short notice, entitled " Aegyptisch-Aramäisches."-Iu xxxv. 4, is a review by Dr. Nestle of M. Victor Ryssel's Gregorian Thaumaturgus-Seine Leben und seine Schriften.-In the Revue Critique is a review by M. Hartwig Derenbourg of R. Duval's "Traité de Grammaire Syriaque."

Sthiopic.-In the Academy for October, 1881, Mr. Sayce has pointed out the great value to linguistic science of M . D'Abbadie's Dictionnaire de la langue Amariñña (as he calls this language), which is more generally known as Ambaric, a work fairly to be considered to be one of the most valuable contributions made of late years to Oriental Philology. The Amharic is one of the dialects which have replaced the now extinct Athiopic or Ghéez, and is spoken in the S.W. of Abyssinia, being, thus, opposed to the Tigré of the N.-In the D.M.G. xxxv. 4, Dr. C. H. Cornhill has a paper, entitled "Noch eine Handschrift des Sapiens Sapientum," nachtrag zu bd. xxxiv. 232-240 :-and a review by M. Prätorius of D'Abbadie's Amariñĩa Dictionary.

China Revier.-Though this publication has not quite maintained, during the past year, the high reputation of previous years for papers of the deepest interest for those who dwell in that remote land, and for many, also, who, not being on the spot, have scarcely equal opportunity
of testing their general accuracy, it has, however, published some papers of real value. Thus, in vol. x. pt. l, we have an able account of "The Foreign Trade with China during 1880," by "Hong-Kong;" in which the writer points out that in the 22nd issue of the Returns of Trade at the Treaty Ports of China, published by the Inspector-General of Chinese Maritime Customs, no return is given for "Trade Statistics at Hong-Kong "; hence, the returns of the Treaty Ports afford but an imperfect account of the Forcign Trade of China: moreover, as it is well known, a large amount of merchandize finds its way from Hong-Kong to Khwang in Junks. Some important remarks are added on the effect of the Indian Trade in Opium [entirely confirming the views of Sir George Birdwood], as it is affected by the vastly increased native growth of that drug within the reach of the Northern and Upper Yangtse ports. It appears from the statements in this paper, that the Paparer is cultivated throughout the Empire, in Siberia, and Manchuria, as freely and as openly as rice, and that, but for the heary en route taxes imposed on it while in transitu, which brings up its value to ncarly the same price as the superior Indian artiele, it would inevitably oust the foreign product from the Southern markets of China, as surely as it is now doing in the North. The writer remarks that the present value of one hundredwcight is about $£ 240$, and that it would form a convenient medium of payment for the "brick" tea sent to Siberia.-Mr. E. I. Parker, the writcr of "Short Journeys in SzCh'uan," continues (from vol. ix.) his valuable and intercsting account of his Travels, the result, assuredly, being, that no one in his senses would travel through that portion of the Celestial Empire if he could help doing so. Mr. G. C. Stent contributes an amusing paper "On the Double-Nail-Murders": -and Mr. F. II. Balfour a learned paper "On the Yin-fu Classic" or, "Key to the Unscen," [since, expanded into a book]a treatise of value in the Taoist Canon. The rest of this
part is devoted, as usual, to the notice of new books, together with various "Notes and Querics."

In vol. x. part 2 Mr. G. Jamieson eontinues his valuable researehes into and "Translations from the General Code of Law of the Chinese Empire," dealing with first "The Marriage Laws "-the " Miring out of wife or daughter" -the "Position of the Wife or Concubine"-"Marriage during the Legal time of Mourning"一the "Marriage with Widows of Relations"-the "Foreible Abduction of Free women "and "Illegal Marriages"-with a curious note "On the Origin of Family Names"-and on "The origin of the rule against Marriages between persons of the same Family namc." A plate is given in illustration of the Chinese notions of consanguinity.-Mr. Parker, also, continues his amusing account of his "Short Journeys in SzCh'uan." -Mr. G. Phillips of Taiwan, Formosa, adds an important historical article, entitled "The Dutch occupation of Formosa." It is remarkable that the natives of Formosa, after the departure of the Dutch, employed Roman letters in drawing up deeds of mortgages, leases, etc. One of these, of the date of 1742 , is still in existence, drawn up in the native dialect, but written in Roman characters, with a translation into Chinese by its side. Mr. Phillips found that many of the words in Klaproth's "Vocabulaire Formosan" are still intelligible to the savages of the West Coast. The part concludes with reviews or notices of several new books.

In vol. x. part 3, Mr. Herbert A. Giles deals with the difficult problem "Of the New Testament in Chinese," and speaks in high terms of an essay read at the Missionary Conference held at Shanghai in 187\%, by the Rev. J. S. Roberts, entitled "Principles of Translation into Chinese." The chief points of Mr. Roberts's view would seem to be that, in all translations, there must be an exchange of idiom in its broadest sense; that the best practical equivalents should be selected; that translation should not be paraphrase, explanation, or
comment; and that there should be an exclusion, so far as is possible, of foreign idioms. It must, we fear, be admitted that Mr. Gilcs has but too clearly shown that the existing translations of the Bible into Chinese are anything but adequate. Mr. E. H. Parker adds one more account of his enterprising "Short Journeys in SzCh'uan";-and Mr. Frederic H. Balfour an important paper "On the Emperor Chang, founder of the Chinese Empire,"-a dissertation of singular interest to even those who have made the study of the history of the Middle Empire a spcciality.

In vol. x. pt. 4, are papers by A. T. Watters, Esq., "On A-mi-t'ê Ching ; "-by Ch. Piton, "A page in the history of China"; "The Delegates' Version and Mr. Giles," by F. J. Masters ;-and "Residence in the Interior and the Transit Trade," by Hong-Kong.-In the first of thesc papers, Mr. Watters makes allusion to Prof. Max Müller's paper "On Sanskrit Texts discovered in Japan," read before this Society, Feb. 16, 1880, and printed in Vol. NII. Pt. 2 of our Journal, and states that the Sukhavati-vyûha-Sûtra has in China several names, of which the best known is Amit'ê Ching, i.e. the Sûtra of Ainitabhas-the Buddha who presides in the World of Extreme Dclight (Sukhavati). Mr. Watters adds that there are two distinct Sanskrit texts with the same title, with Chincse translations of both.Mr. Piton's "Page of the Mistory of China" will prove intercsting even to those who are not acquainted with the Chincse language, as showing how the various dynastics came into existence. He rcfers, also, to the K'i-tan Tartars, on whom Mr. Howorth has written much in the Journal of this Society and elsewhere. Mr. Masters gives a clear account of the great work of translating the Moly Scriptures into Clinese, in his notice of what has been called "The Delegates' Version," as having been carried out by certain "Delegates" who met at Shanghai in 1847, under the direct patronage of the British and Forcign Bible Society. Mr.

Masters then deals mereilessly with Mr. Giles and the artieles in whieh he has attaeked this "Version "-showing, it would seem, indisputably, that, however great his other excellenees, Mr. Giles's forte is not translation into Chinese. A paper on "Residenee in the Interior and the Transit Duties" shows how easy it is to misinterpret and miseonstrue the plainest English, where one party to a treaty is desirous of evading the obvious conditions. At the close of the number are good reviews of nany exeellent works, sueh as :-" Yearly Festivals and Customs of the Amoy Chinese," from the Duteh :-of "Aneedota Oxoniensia," edited by Prof. F. Max Müller, the first part of whieh contains " Buddhist Texts from Japan."

China.-Besides the China Reciew, a considerable number of papers, essays, and letters, more or less referring to that country, hare beeu published during the last year. Thus, inter alia, we have in the Athencum (August) a very interesting aecount of the overland route from Burma to China, lately aceomplished by the Revs. I. Soltau and J. W. Stevenson. Their starting-plaee was Bhamo, and the line taken was through the hilly Ka-Khyen eountry, between Burma and the Shan States. Throughout their whole journey the travellers seem to have been well reeeived, they reaehed the Yang-tse, two days beyond Laowatan, at a distanee of 858 miles from Bhamo, and 1756 from Shanghai.-M. de La Couperie, M.R.A.S., prints a letter pointing out the importanee of his diseovery that early Chinese eivilization had been borrowed by the so-ealled "Hundred Families" from the South of the Caspian Sea. In the eourse of this letter, M. de La Couperie explains the nature of the translation he has undertaken, with Prof. Douglas, to bring out, and the views he has for some time entertained with regard to the deriration by the colonists of China of writing and of the elements of seiences, arts, and government, from a centre of aetivity where Babylonian or Accadian culture had
been more or less directly spread. MI. de La Couperie adds that, in a short time, European scholars will have before them no less than six translations of the "Yh King" for mutnal comparison.

In the Academy (Oct.) M. de La Couperie prints an interesting letter, in which be attempts to prove that the geographical name Ta-Tsin, whereby the Roman Ennpire is believed to have been called by the Chinese, is probably a reprcsentation (viz. Taitan) of Tidan or Didan (the low country along the Syrian coast), names which Chinese travellers might easily have met with on the east of the Caspian. The Romans, it may be remarked, had extended their domination to the Syrian coast, only a short time before this presumed Chinese expedition.-In the same Journal, Prof. Douglas reviews Dr. W. A. P. Martin's "The Chinese, their Education, Philosophy, and Letters," a book so far valuable, that Dr. Martin was for a long time connected with the Tungwen College, and had exceptionally good opportunities of studying the subjects to which his essays are devoted. His view of the influence of the "Imperial Academy" on the true education of the country is very unfavourable to the existing system.

Mr. Beal, in reply to Dr. Morris, states that he has found one Sutta at least of the "Sutta Nipáta" in Chinesea version of the Sanyutta Nikáya, viz. the Kasibhá-vavaja Sutta. Mr. Hilderic Friend writes a letter in which he shows clearly that the statue in the Temple of the Five Hundred Genii at Canton (which has been more than once asscrted to be that of Marco Polo) has no claim whatever to this distinction; but is, really, that of a certain Shen Chu Tsun Ché, a native of one of the Northern Provinees of India, and, for his zeal as an apostle in the service of Buddha, highly renowned.-Mr. Gardncr (Acad. May 20) reviews at some length Mr. A. Giles's "Historic China and other Skctches," in which he points out many crrors in this work
and a general want of eare shown in its preparation ; and, also, that in his sketeh of the Chow and Han Dynasties, he follows Mr. Wylie more than blindly. On the other haud, his chapters on "Edueation," "The Book Language," "Chinese Fans, ete.," are well done.

Other essays of some importance are the following:Colonel Yule, Hwen 'T'sang (Encye. Britann. vol. xii.): Ratzel, Die Chinesen in Nord-Amerika seit 1870 (Monatsehr. für d. Orient. 12) :-Rudy, Ch., The Chinese Mandarin Language (Ban-zai-San, vol. iv.) :-Turretini, Fr., San-zeKing: les phrases des trois caractères en Chinois avee les Versions Japonaises, Mandehous, et Mongoles (ibid.) :Cordier, IL., Bulletin eritique des Réligions de la China (Rer. d. l'Hist. d. Religions, iii. 2) :-MacDonald, A., Hong Kong (Eneyel. Brit. vol. xii.) :-Kreituer, G., Das Ajna-volk (Mitth. d. Geogr. gesellsch. für Naturk. OstAsicus, Meft 21-24).

The following papers, also, deserve record. Thus, Dr. Legge (in Acad. March 4) has given a review of G. von Gabelenz's "Chinesische Grammatie," the publieation of which will, he thinks, make an era in the study of Chinese on the Continent. In this paper Dr. Legge does full justice to the remarkable early labours of the Jesuit Missionary Prémare, whose MS. (of the early part of the eighteenth century), after having remained more than 100 years in the Royal Library at Paris, formed the substantive base of Abel Remusat's "Elements de la Grammaire Chinoise," 1882.-There is, also, a valuable paper on La Religion de l'Ancien Empire Chinois, étudiée au point de rue de l'histoire comparée des religions, translated from the German MSS. of Julius Hoppel, in the Revue de l'histoire des Religions, iv. pp. 257-298:-an interesting pamphlet by Dr. Wilhelm Grube, Die Sprachgeschichtliche Stellung des Chinesischen (Leipzig, 1881), giving, in a German dress, many of the views held for several years by M. Terrien de La Couperie.

Of books recently published, the following may bc mentioned :-Boulger, D. C., History of China, vol. ii. :Ethnographie des peuples étrangers de la Chine, ouvrage composé au xxiii Sièclé de notre ère par Ma-touan-lin, trad. pour la première fois du Chinois, avec un Commentaire perpetuel, par la Marq. de Hervey de St. Denys, $1^{\mathrm{e}}$ partie:-a reprint of the Atsuma Gusa of Turrettini, in which the second volume of the same work is nearly finished:-Hughes, T. F., Among the Sons of Han: Notes of a six years' residence in various parts of China and Formosa:-Schott, W., Ueber ein Chinesischen Meng-werk nebst einen anhange linguistiche verbesserungen zu zwei bänden der Erdkunde Ritters:-Se-Siang-Ki, ou l'histoire du pavillon d'Occident, comedie en 16 Actes, traduit du Chinois par St. Julien:-Tchou-Po-Lou, Les Instructions familières du Dr. Tchou-Po-Lou, Traité de Morale pratique, avec vocabulaire, par C. Imbault-Huart:- Uehle, Max, Beiträge zur Grammatik des Vor-Klassischen Chincsische, I.: Die partikel "Bêi" im Schu-King und Schi-King (a patient compilation):-F. H. Balfour, The Divine Classic, a valuable translation of the Nanhua of the Taouist philosopher Chuang Tsze :-Prof. Legge, Translation of the Yh-King, for Prof. F. Max Müller's "Sacred Books of the East":—M. Cordier has, also, printed separately his Address as Professor.

Besides the books noticed above, especial notice must be taken of a work, now in course of publication (the first part being out), under the editorship of M. de La Coupcrie, entitled "Oricntalia Antiqua, or Documents and Researches relating to the Writings, Languages, and Arts of the East." The Editor's object is, to publish by lithography, texts, inscriptions, drawings, and papers on Oriental Archæology, etc., which require, for printing, special characters. Anong the papers are Early Chinese Texts: 1. The Calendar of the Hea Dynasty, by Prof. R. K. Douglas, M.R.A.S. 2. On the origin of the Phœnician Alphabet, by Mr. G. Bertin, M.R.A.S.

Japan.-If the number of essays, tracts, or books published in any one year be an adequate test of the suceessful progress of the literaturo of a country, it ean searcely be doubted that Japan is advaneing at a pace few other nations have had the opportunity of. We can, only, here allude to some of the more important works of the last year. Thus, at Oxford, Mr. Bunyiu Nanjio, Priest of the Monastery of Eastern Hongwanzi, Japan, has prepared a eatalogue of Japanese and Chinese books and MSS. lately added to the Bodleian, which is, we believe, in coursc of publication at the Clarendon Press. These include, first, a collection made by Mr. Wylic, and bought by the Curators of the Bodleian in 1881, consisting of thirty-seven works in all; secondly, five Chinese and two Japanese law books, presented to Mr. S. Amos by the Japanese Government; and, thirdly, a collcetion of Japanese books and MSS. presented by Prof. F. Max Müller. Mr. Mongredien's essay "On Free Trade and English Commerce" has just been translated into Japanese by Mr. Miyoi Keinisin, the trauslation being preceded by two short addresses to the reader, one by M. Nomura, who has revised the translation, the other by the translator. It is in eontemplation to publish translations from some of the other papers of the Cobden Club. This scheme has been taken up warmly by the editor of the Japan Gazette, an English journal published at Yokohama. It may be added, that the works of many leading European writers are now extensively translated or adapted in Japan, and that many of Macaulay's and of Herbert Spencer's Essays are reprinted in English at Tokio and sold by the booksellers there. At present there seems to be no law in Japan against literary piracy, from which the Chinese, as the nearest neighbours, are naturally the chief sufferers.

There are, also, articles by Sir Rutherford Alcock, K.C.B., on Japanese Art, in the Encyclop. Britann. vol.
xiii. :-Bälz, W., Japan (in Myers' Konvers. Lexicon, 1880-1) :-Benkema, T. W., Die Leiehenverbrennung in Japan aus Holländiseh (Mitth. d. Ges. für Naturkunde Ost Asiens) :-The Chrysanthemum, a monthly magazine for Japan and the Far East:-Eckert, F., Die Japanische National-Hymne (Mitth. d. Ges. f. Nat. Ost-Asiens) :Guimet, E., Promenade Japonaises Tokio-Nikko, texte par E. Guimet, Dessins de F. Regamey :-MacClatchie, T. R. H., Japan, Eneyelop. Britann. vol. xiii.:-Museums and Exhibitions in Japan (Nature, Oct. 13), with which may be mentioned the fact that the Japanese National Exhibition, when opened to the public on March 31, 1881, was found to have been supported by no less than 31,000 exhibitors:A paper by W. Gifford Palgrave, entitled "Kioto," in the Fortnightly Review for Dec. :-Pfoundes, C., The Japanese People, their Origin, and the Race as it now exists (Journ Anthrop. Institute, x. 2) :-Ditto, ditto (Trans. Roy. Soc. Literature, vol. xii.):-Ziehy, A. Graf, Ueber die Kunst der Japanesen (Liter. Beriehte aus Ungarn, Bd.iv.):-Rios, E., Le Japon depuis la Revolution de 1660 (Bibl. Univers, Juillet) :-and Siebold, Ethnol. Studien über die Ainos auf der Insel Yesso (Suppl. Heft. Zeitsehr. für Ethnologie, xiii.) :-and a very good translation of the "Don-zhi-ken," Teachings for the Young, from the Sino-Japanese, by our Member, Mr. Basil Hall Chamberlain.

Among books reeently published may be noticed Mr. J. R. Black's Young Japan, Yokohama and Yedo, a narrative of the Settlement and of the City from the signing of the Treaties in 1858 to the elose of the year 1879, with a glance at the progress of Japan during a period of 21 years:-Pfitzmaier, Lebens-beschreibungen von der führen und Würden-trägern:-M. de Goncourt, Maison d'm Artiste, with the account of his museum of Japanese euriosities, added to his better known collections of prints and of long unknown drawings:-It is further understood that Mr. Maunde

Thompson, the Kecper of the MSS. in the British Museum, is engaged in editing for the Hakluyt Society the Diary of Richard Cocks, who was resident for many years in Japan during the reign of James I.:-The Dietionary of the late Dr. J. J. Hoffmann, which was lcft by him at the time of his lamented death nearly, if not quite, complete, is being published by MDI. Brill, of Leyden, under the title of Japaansch-Nederlandsch Woordenboek, under the editing of M. Scrrurier, Keeper of the Ethnographical Museum :Mr. Kenchio Suycmatzu, M.R.A.S., is tramslating the wellknown Japanese romanec, Gengi Monogatari, the author of which was a lady:-Mr. Satow has just eompleted and published a Mandbook for Northern Japan.

Further India and Malayo-Polynesia.-To the Annales de l'Extrême Orient, as on formcr oeeasions, we owe much raluable information with refercnee to the dwellers in the remote parts of the East. Among the most important papers this year are-On the Island of Celebes, by the Count Meyners d'Estrey, in which he ealls attention to the raluable labours of M. le Chev. J. K. W. Quarles van Ufford, a distinguished Oriental scholar, and, up to the present time, the only one who has given his serious attention to the Philology and Ethnography of that island, following in the steps of Dr. Matthes, whose labours on the Makassar and Bugi languages are well known, and who has been heartily reeeived on his return to Holland by our member Prof. G. K. Niemann, who alone, we believe, in Europe, is a teacher of these languages.-It should be added that there are inportant papers by Dr. Matthes on the south-east part of Celebes in the publications of the Biblc Society of Holland, two of which may be specially noted. One (published in 1872 by the Royal Society of Amsterdam) on the Bistous or Pagan priests and priestesses of the Bugi, the other on the Ethnology of Northern Celebes. On the Sandwich Islands,
by J. V. Barbier.-An interesting account of La Birmanie Independante in his reeent work "Les Indes, La Birmanie, La Malaisie, Le Japon, et Les Etats-Unis," by the Count Julien de Rocheehouart, with a seeond artiele on the same subjeet in a later number.-By Count Myners d'Estrey, giving a pleasant narrative of the honours done at Leyden last June to the veteran Professor, Dr. P. J. Veth, on his attaining the fortieth year of his professoriat.-There are also valuable papers "Sur une Seierie des Bois de Teak à Bangkok." - By M. Léon Feer, "Sur la Paponasie (New Guinea)," being, ehiefly, a notiee of the work by Count Myners d'Estrey, "Sur la Paponasie ou Nouvelle Guinée Oceidentale," unquestionably, the best authority we have up to the present time of an island more than 1000 miles long by 200 broad; and, by the same writer, in two separate papers, a very full abstraet of the history of the great monument of Boro-Boudour, the prineipal notiees of which were published, as already stated, by order of the Duteh Government by Dr. Leemans, the Dircetor of the Museum of Antiquities at Leyden, from the designs of Mr. F. C. Wilsen, and the MS. descriptions of MM. F. C. Wilsen and J. F. G. Grumund. M. Feer, as might be expected from his profound knowledge of this subjeet, while admitting the value of the labours of the draftsmen and editors of these remarkable volumes, eriticizes very freely many of their suggestions and interpretations. - Another paper worth reading is by M. Louis Bazangeon, "Sur le peuple et le gouvernement Japonais": as is, also, the work by the Marquis d'Estrée, "Sur une nouvelle Caste de Java," whieh has been marvellously earried out, the lithographie stones on whieh it was drawn having been lost in a shipwreek and recovered from the bottom of the sea, only by great toil and exertion. In a subsequent essay the same writer gives a summary of the Congrès Géographique de Lyous, with the reply of Dr. Harmand to certain objeetors, in
which he would seem to have been quite successful. The text is also given in the October number of the recent Treaty between Rnssia and Chiua, which has been mainly negotiated by our Monorary Member, the Marquis Tseng, Ambassador of China at the Court of St. James. There can be little doubt that the Russians gave way and ceded Kuldja, after having distinctly conquered it, finding it impossible to maintain their own against so persistent and implacable enemies as the Chinese. It may be added here, that at a meeting of the "Société des Arts et des Sciences de Bataria" the Barou Textor de Ravisi made a speech of great iuportance, in which he pointed out the necessity to a nation of having au extensive series of Colonies, and showerł to how great an extent the power of Spain, Portugal, Holland and England has been due to the careful nourishment of their Colonial Systems.

In the number for Dec. 1881, M. Cotteau gives a very pleasant account of a jouruey he made from Paris to Nagasaki in Japan, by the way of Siberia-a journey, the more remarkable, in that he left Paris on May 6, 1881, and reached Nagasaki in three months, on August 7 , at a cost not exceeding $£ 100$. M. Senn ron Basel, Consul-General of the Netherlands at Bangkok, gives a lively sketch of his experiences at Siam (in two papers), with some curious notes as to the mode in which commerce is carried on in that remote locality. There is: also, a good notice of M. le Comte Julien de Rochechouart's "Pekin et l'Interieur de la Chine," a work of much value as giving a clear narrative of the many curious things to be still seen in the "Environs" of Pekin. Inter alia, he gives an account of the celebration of Mass at which he was present in Manchuria, when the cold was so great that the Sacred Elements were frozen on the altar.

In the first number for the present year, Prof. Kern gives an important paper, entitled "L'Epoque du Roi Suryararman," with reference to an article by M . Lorgean, on an

Inseription found at Lophabouri (this paper was published in the Ann. de L'Extr. Orient. August, 1880). The date is belicved to be about a.d. 833. The importance of this document is-that it confirms the previous belief of scholars, that there is not the slightest trace of Pali in the Cambogian Inscriptions, though, at the same time, several Sanskrit words occur in them. Though, in some parts, imperfeet, Dr. Kern has been able to show, that its purport is a decree of the King Suryyavarman (ânjâ Srî Síryyazarmmdera). The Inscription of the Prea Khan has already demonstrated that it was the Northern branch of the Buddhists who settled in Cambogia. It is right to add that the Marquis de Crozier has stated at a recent meeting of the "Société Académique Indo-Chinoise," that M. Aymonier did not agree with the interpretation of Dr. Kern. The grounds, however, of the difference betweon these two scholars, have not as yet reached us. In the number for February, 188:, four plates are given of the Cambogian Inscriptions sent by Dr. Harmand to Prof. Kern, with his transeription, etc.

Then follows a brief but useful notice of the History of Corea - which is of importance, as showing that the territory of Corca was, in early times, far more extended than at present-indced, reached even into Manchuria, where many ancient tombs of the original population are still visible. A list is given of the chief rulers from A.D. 1391 to 1866 ; there is, also, a very curious paper, entitled "La Culte et la Fête de l'Ours chez les Ainos."

A remarkable account is added of the recont introduction of Electric Telegraphs into China, the line having now been completed between Tientsin and Shanghai, possibly, at the present time, even into Pekin. It may, however, be reasonably presumed that the Telephone will, in the end, be of greater service to the Chinese than the Telegraph, as the nature of the Chinese language and alphabet does not lend itself readily to the construction of telegraphic
messages. On the other hand, in Japan, where, a ycar and a half ago, 848 of Morse's instruments were in use, the telegraphists have constructed an ingenious alphabet of their own, consisting of 47 symbols. A school of telegraphy has been founded, whercin, recently, 227 students were being aught the art. An interesting review is, also, given of Shib Chunder Bose's work, which has thrown much light on the actual state of social life among the natives of India.

The number for March contains a rery valuable and exharstive paper "On the tenure of Land in China," by M. Eurènc Simon, and a sccond article on the Cominerce of the Sandwich Islands ; but the most important paper is that by the Baron Ernouss "Kashmír and Little Tibet (Ladakh)," in which the writer gives a picturesque account of his journey from Sirinagar to Leh, and at the same time, a plate of a remarkable figure of Buddha, of gigantic proportions, which he noticed on his way, carved out of the side of the mountain.

In the April part, we find a vigorous protest against the laissen-aller policy, which appears to actuate the French Government with respect to their Colonial system, and, in an especial manner, with reference to the Indo-Chinese colonies or Protectorate; and an able article, on a subject of great moment at the present time, viz. the possibility of cutting a canal through the Isthmus of Kra. Naturally the French colonists are urgent in a matter, which, if successful, will transfer to Saigon nine-tenths of the commerce of Singapore, and materially shorten both the time and the dangers of the transit between India and China. This idea is not a new one ; indeed, in the last century, the cutting a canal to join the Bay of Bengal and the Gulf of Siam had been thought of: but it is only recently that this matter has been taken up warmly. M. Léon Dru's two papers, "La Peninsule Malaise," 1881, and "Projet du percement de l'Isthme de Kra," 1882, and the "Conference faite par M. Deloncle à la Société de Géographie Commerciale de Paris, Mars,

1882," will supply the student with all necessary details on this point.

One of the most interesting notices in the number is a notice of the ceremonials attending the celebration of the birthday of the young King of Siam, on which occasion our member, Mr. W. G. Palgrave, read the Address to the King, on the part of the European community. The speech of the King in reply exhibited much good practical common sense

In concluding this part of the Report, it may be statel, that M. Edmond Fuchs, who has been sent by the Fremsh Government to explore the mine-district of Tongkin and Cambogia, has returned from his survey with a rich collection of materials for further research; and that M. Delaporte (to whom we owe a valuable work on Cambogia) has completed his Arehæological and Scientific Mission to the Khmer Ruins in Indo-China. Details of his journal have been given by the Marquis de Crozier at the last meeting of the Society over which he so well presides. M. Delaporte left Marseilles on Oct. 31, 1881, and, after reaching Saigon, went directly to the celebrated ruins of Angkor, the result of his researches there leading him to believe the ruined temples are really Brahmanical. Augkor-Vat he found to be dedicated to Rama and Vishnu. M. Delaporte has been able to secure 300 photographs and a large number of impressions. He has just arrived in France, having left behind him Dr. Ernault and two other Frenchmen to complete his researches.

At a recent meeting of the Académic des Inscriptions, M. Aymonier read a paper on an Inseription in the Cian or Chan language from Dambang-Dêk in Cambodia. The people known as Cians were the dominant population throughout Farther India before the invasion of the Kmers of Camborlia. Some of them may still be found in seattered commmities. Their power is attested by Mareo Polo, who visited them in the thirteenth eentury. M. Aymonier states that they liave three dialects:-1. The Dalil or Sacred Language; 2. The

Ciam or Vernacular proper ; and 3. The Bani, a Muhammadan dialeet, which has now superseded the other two. The inscription referred to is written in the sceond of these three, and contains the lament of a mother, whose daughter had abandoned her husband and children. It may be added that M. Aymonier has diseovered in Cambodia many Sanskrit inscriptions. A "Comparative Grammar of the Languages of Further India," by the late Capt. C. J. F. S. Forbes, has been earefully reviewed by Licut.-Col. T. H. Lewin, M.R.A.S., in the Academy for Scpt. 10, 1881.

Comparatively few special books have been published lately on these subjects; but we may notice that M. H. Rarier has issued a "Dictionarium Latino-Annamiticum novo ordine dispositum, etc., ex typis Miss. Tunquini Occidentalis"; and that M. Ewald has published a Grammar of the Siamese Language.

Malay,-Mr. Maxwell, M.R.A.S., the Assistant Resident at Perak, has just published "A Manual of the Malay Language, with an Introductory Sketch of the Sanskrit Element in Malay," in which, taking, as his model, the Hindustani Grammar of the late Prof. Forbes, he has endeavoured to supply a work which shall be, at once, an elementary grammar and a compendium of words and sentences to teach the colloquial dialeets as well as to explain the grammatical rules. In this effort Mr. Maxwell appears to have been quite successful. His introduction deals with the origin of the Malay language, referring, on this topic, largely to the opinions expressed by the late Mr. Logan, which, even if generally correct, are certainly of too adranced a character for a beginner. Mr. Maxwell, it will be observed, never mentions Pali, but attributes the Sanskrit words he finds to the direet influence of Brahmanism ; but the Pali-speaking Buddhists must have had some influence too.-In Malay, we may note, further, Mr. F. A. Swettenham's Vocabulary in

2 vols., English-Malay and Malay-English, with Dialogues (Singapore, 1881):-H. C. Klinkert's Conversatie boek voor het Maleisch (Haarlem, 1881) (containing, also, a grammar). On the language of Madura, we have now a grammar and vocabulary by W. J. Elzevier Stokmans and K. J. C. P. Marinissen, printed at Surabaya in 1880, and M. Vreede's Edition of the Travels of Raden Mas Aria Purwa Lelana (Lciden, 1882) :-also, a second edition of his Manual and Reader (Leiden, 1882).

For Sundanese, we have a Chrestomathy by C. J. Grashuis (Leiden, 1881), with a valuable introduction; and N. J. Oosting's edition of Charios Supena (Amsterdam, 1881).

An important contribution towards the study of Old Javanese has been made by the publication at Batavia of C. J. Winter's Kawi-Javanese Dietionary, while two treatises on Modern Jacanese Grammar have recently appeared in Holland, viz. H. L. Humme, On the various forms of its Verb, and Ch. T. Mechelen, On Word-building in Javanese.

Formosa.-We understand that Mr. J. Dodd, of Tamsui, is preparing for the Journal of the Straits Settlements his vocabularies of the various dialeets spoken by the aborigines in the interior of Formosa. These vocabularies will include, also, a large number of words collected from the Pepohuans, a tribe unconnected with either the Chinese on one side or Negritos on the other.

Polynesia -In the D. M. G. (xxxvi. 1) Mr. J. Hersheim, who has already paid much attention to the dialects of the Marshall and adjacent islands, has given a valuable notice of tho Vocabulary, published many years ago by Chamisso, of Radak Islands; and, in the Athenæum for Aug. 6, 1881, there
are rery full reviews of Abraham Fornander's "Account of the Polynesian Race, its Origin and Migrations," and of Mr. Dawson's "Australian Aborigines; the Languages and Customs of several Tribes of Aborigines in the Western District of Victoria, Australia."

Miscellancous Indian or Oriental.-Many interesting articles, reviews, or notices have appeared, on this subject, in different Journals, etc., of which the following may be specified:Thus in the Athenæum, are reviews of the late Dr. Oldfield's Sketches from Nipal, historical and descriptive, a book of very pleasant reading, though somewhat late in publication :of Fausböll and T. WT. Rhys Davids' Buddhist Birth Stories (the Jatakavattharannanâ) :-of Mr. E. B. Eastwick's Handbook for the Bombay Picsidency, admirably executed, but with a very poor map :-of Mr. J. F. Baness' Index Geographicus Indicus, a work of much utility for statistical purposes, and the most compendious geographical manual in existence:-of Sir George Birdwood's Industrial Arts of India, rery useful to the student of Indian Art as distinct from Architecture :-of Mr. Wr. W. Hunter's Imperial Gazetteer of India :-of Mr. H. B. Grigg's Manual of the Nilagiri District of the Madras Presidency:-of Mr. J. H. Nelson's Prospectus of the Study of Hindû Law :- of Major H. G. Raverty's Notes on Afghanistan and part of Baluchistan, Parts I. II. and III., printed by order of the Secretary of State for India, a compilation whose value would have been greatly enhanced had it been provided with one or two good and rccent maps:-of Mr. W. E. Maxwell's Manual of the Malay Language:-and of Mr. H. S. Cunningham's British India. There are, also, some interesting but less extended notices, as that of M. van der Gheyn's "Le Berceau des Aryas":-of MI. C. Szasz's "The Great Epics of the Indians" (in Magyar):-of Archdeacon Baly's paper On the Education of the Eurasian peoples:-and of
M. Minayeff's important volume "On Aneient India," being an aecount of the notes of Nikitin, a Russian traveller in India in the fifteenth eentury, which has been translated into English by Count Vyelgoursky :-There is, also, a reprint, by Sir George Birdwood, of a eurious English poem of the seventeenth eentury, ealled "Prinee Butler's Tale," of interest as bearing on the Bombay Trade Ballads (Kirtans), one of whieh he published last year:-and more than one etymologieal paper by Colonel Yule.

In the Aeademy are reviews of many works, such as Mr. W. W. Hunter's Imperial Gazetteer, already noticed as examined in the pages of the Athenæum; and some others, also, to which attention should be called here; as, for instance, brief but good notices of sundry smaller works on India, such as of Mr. R. N. Cust's Pietures of Indian Life, whieh receives the eommendation it so well deserves:-of E . I. Arnold's work "On the Indian Hills":-of Col. G. T. Fraser's Reeords of Sport and Military Life in Western India :-of V. Ball's Diamonds, Coal, and Gold of India :of Shib Chunder Bose's The Mindus as they are:-and Dr. A. C. Burnell's most interesting volume of the Italian Version of a letter written in 1505 by Dom Mannel, King of Portugal, to King Ferdinand of Castile, giving an account of the early Portuguese Voyages from 1500-1505, thus exeluding that of Da Gama, 1497-9. To these may be added reviews by A. C. Burnell of Nelson's Seientifie Study of Hindu Law, and of the Sceond Voyage of Vaseo da Gama (by Berjeau):of Mr. Burgess's Arehæologieal Surrey of Western India, Inseriptions from the Cave-Temples of Western India :and by T. W. Rhys Davids of Prof. F. Max Müller's Dhammapada-The Sutta Nipâta-being vol. x. of the Sacred Books of the East; and of A. Barth's Religions of India, translated by the Revd. T. Wood (Trübner's Oriental Series) : by J. S. Cotton, short notices of Sir John and General Strachey's Finances and Publie Works of India, from 1869 to

1SS1; of Mr. Tayler's Thirty-Fight Years in India, vol. i. ; of Colonel W. F. IB. Laurie's Ashé Pyee, the Superior Country, or the Great Attractions of Burmah to British Enterprise and Commerce ; of Rajendralala Mitra's Indo-Aryans; of Bishop Caldwell's Political and General Mistory of the District of Timevelly :-Mr. W. W. Hunter gives, also, an admirable review of Mr. Edwin Arnold's Indian Poetry :Mr. Littledale one of Mr. Mandlik's Hindu Law :-and Mr. Sayce a brief notice of M. Lenormant's Histoire ancienne de l'Orient, vol. i. of the minth edition.

Assyrian and Cuneiform.- I considerable number of valuable papers and books have been published during the past year, of which the following may be noted. Thus, in the Athenæum is a notice of a discovery by M. J. Derenbourg, which, even if it be not fully confirmed, is, at all events, an ingenious suggestion for the explanation of the word Ammi in the name Amminabad [which occurs in an Assyrian inscription, as the name of a king of Ammon], as really the denomination of an Ammenite deity, analogous to Kemosh, which is found in the name of Kemoshnadab, a Moabite king. He explains, in consequence, the name of Ben-Ammi (Gen. xix. 35) as the son of the god Ammi, like Ben-Hadad, the son of the Aramæan divinity Hadad. J. Derenbourg observes that one of Darid's ancestors is called Amminadab, suggesting that Darid may hare been of Ammonite descent on the paternal side, and of Moabite on the maternal.-Mr. Boscawen has contributed several papers. In the first of these he deals with the discovery and decipherment by Mr. Pinches of an inscription which records the events in the reign of Nabonidus, the last native King of Babylon. Mr. Boscawen considers that this inscription fully confirms the statement of Daniel, Herodotus, Xenophon, and others, that the city of Babylon was taken during one of the great festivals of the people, and that, after the capture of Sippara,
the army of Cyrus, under the command of Ugbaru (or Gobryas), entered the city without fighting. Whether or not "Darius the Mede" is the same as "Gobryas the Mede," seems to lack further confirmation. In a second paper he gives memorials of a king of Babylon.

To the Academy Prof. Sayce contributes two papers: one on Kyaxarês and the Medes, in which he ealls in question Prof. Oppert's identification of the Median King with the Uvakhsataru of the Behistun Inseription; on the other hand, he thinks that Kastaritu or Kastariti, the name found on the later tablets, approaches more nearly to it. He thinks, also, that Istuvegu (the Astyages of the Greeks) is as certainly non-Aryan. In his second paper he criticizes very favourably the recent work by Dr. Delitsch, "Wo ist das Paradies?" The true site of Eden Dr. Delitsch conceives to be in the district between Babylon and Baghdad, this name being derived from the Accadian "Edin," meaning plain or valley. Dr. Delitsch, also, holds that "Paradise" is not derived, as most people have supposed, from the Persian, but more probably from an Aceadian word.-At more than one recent meeting of the Académic des Inscriptions Prof. Oppert has read papers on the great Inscription of Assurbanipal, King of Assyria (recently procured by Mr. Rassam). This Inseription is on a cylinder or prism, which was diseovered, as have been so many others, inserted in a niche prepared for $i t$, in one of the angles of the terrace of the Royal Palace. On one part of it, besides the nisual aceount of his exploits and of his derotion to his god Nebo, there is a record of an eelipse of the sun, which astronomers are able to assign to June 24, 661 b.c., thus affording a fixed date in Assyrian chronology, independently of Greek or Hebrew ehronielers. In another place there is a narrative of the defeat and death of Samutsum Yukin, apparently a younger brother of Assurbanipal, who had raised Babylon in rebellion against him. Samutsum Iukin is said to have
been flung into the flames by the enraged inhabitants, thus furnishing the first idca of the story, which the Grecks transferred (with variations) to his victorious brother. Before the same learned body M. Ménant has also read papers "On the lortraits of the Kings of Assyria," andarguing (1) from the portraits of contemporary monarchs of the Chaldxan line at Babylon and of the Assyrian at Ninevch, (2) from those of the different dynasties at Nineveh and Kalakh, and (3) from those of several kings of the same dynasty-has drawn the conclusion that the artists really meant to reproduce actual and not merely conventional features.-M. de Longperier, in one of the last-if not the vcry last-papers he contributed to the Académie des Inscriptions, has attempted to connect the discoveries of M. de Sarsec with the kingdom of Mesopotamia, as ruled over by Chushar Risha Chaim (Judges xi. 8, 16). The Hebrew word there used is Aram-Naharain-the Syria of the Two Rivers.

Since the lamented death of M. de Longperier, early in the present year, more details of M. de Sarsec's work have come to hand: we quote, therefore, the following, but in a form much abridged, from the Times of May 24. From this report, it appears that M. de Sarsec, with exceptional facilities, has explored the lower portion of Southern Babylonia, and especially a mound, called Tell Ho, on the Shat el Hie, near the shores of the Wasat lake or pool. By his thorough excmination of this mound, M. de Sarsec has been able to bring to light the ruins of an important edifice, palace, or temple (which, is not clear), dating from the very earliest period of Chaldæan monumental history,-the founder of which wonld seem to have been contemporary with Urulkh, the Orchamus of the Classics, the builder-king of Ur. In the remains of this edifice, were discovered various valuable monuments, statues of priests and kings, cut out of a hard kind of porphyry, granite, or diorite; while there were
numerous other statuettes in terra-cotta and marble, with a few specimens of what we must call primitive bronzefounder's work. The name of the aneient eity, as recorded on various tablets, is "Sergulla"-the city of the " great light"-perhaps so called as one of the chief seats of very early Chaldæan Fire-worship. It is interesting to know that the modern Arabized form of Zerghul is still the local name of the district in which "Tell Ho" is situate. The majority of the monuments found in sitû bear the name of a Chaldean king, called Gudea, a monarch who seems to have held a vice-regal appointment under Dengi, King of Ur.

The most important objects obtained from this site have been secured by the French Government, and deposited in in the Louvre ; the British Museum, however, has obtained many good examples of the primitive Art of Chaldea, inter alia, a rudely-carved statue of a goddess, and some other statuettes in bronze, evidently those of two priests, who seem to have been attached to the chief temple of the city. The general results are, that, ethnologically, we can trace two distinct types of peoples, whose features have been here recorded with singular fidelity by the primitive sculptors. The first represents a beardless type, with a head of the brachycephalic type, but, at the same time, with markedly orthognathous features-possibly those of a Mongoloid or Ugro-Finnish type. The same type is found in the Elamite and Susianian people, as represented on the sculptures from Nineveh. The head found by M. de Sarsee resembles that of the Elamites of the time of Scnnacherib. The sccond type is that of a bearded race, with more distinctly Caucasimn features, the hair being long and straight. The figures, generally, it may be added, bear a remarkable rescmblance to the bearded race, whose statues are found on the so-called Hittite sculptures, from Jerablus or Carchemish, and from Boghaz-Keui in Phrygia. Here then, at the very earliest dawn of Chaldean history, we find a population in the land
of an apparently Mongoloid or Turanian type, with inscriptions in an agglutinative form of writing, bearing, as M. Terrien de La Couperie has shown, a striking resemblance in its commonest ideographs, to that first propagated in China by " the Mundred families of the Celestial Empire."

The city of Sergulla was clearly, also, the earliest seat of the workers in metals,-this primitive centre being that which supplied the surrounding cities with weapons or statues for temples or shrines. The discoreries of M. de Sarsec, so gladly welcomed by Western scholars, show clearly that, in the marshes of Southern Chaldea, there still remain untold records of the primitive settlers in the land of Shinar, and that we have good reason for beliering that in the ruined cities of the Tigro-Euphrates delta, we may find the solution of many problems of the primitive culture of mankind. Anyhow, there is no room for doubting that, on the banks of these canals, we do find remains of the most ancient cities in the world-the Shat el Hie being, unquestionably, the greatest of the engineering works of this remote people. It was in this neighbourhood that Mr. Rassam was for months engaged in making explorations for the Trustees of the British Museum, his chief labours, as noticed in last year's Report, being at the Mound of Abu Habba, which is believed to mark the site of the ancient city of Sippara, the Chaldean Heliopolis. To the Architect and Archæologist, his researches have been of the greatest interest, in so far that they hare restored to us the remains of a temple, the latest portions of which date from the tenth century b.c.; one, too, which, in construction, bears a remarkable resemblance to the Jerrish Temple, as built by Solomon. It seems certain that Bit-Sarra, the chief fane of the Sun-God at Sippara, was not only the dwelling-place of the patron Deity of the city, but, also, the centre from which, or to which, flowed all the commercial and fiscal transactions of the province of Akhad or Northern Chaldea. Early in the present year, over ten
thousand tablets have been found at Sippara, relating to the commercial life at Babylonia-a discovery which supplements, in a way quite unforeseen, the discovery in 1875 of the Egibi tablets. These recent documents are dated in the reign of Samassumukin and Kindulani, Chaldean Kings, whose reigns have been identified with those of Saosduchinus and Kiniledanus of Ptolemy's Canon : we have, thus, therefore, a complete scries of documents to guide the student of history. Mr. Rassam is, now, again, busy among these ruined cities, and, guided by his discoveries at Abu Habba, and by the topographical information to be gathered from the inscriptions, we have reason to expect many and valuable results from the campaign of exploration of 1882. Anyhow, it is certain that, by the labours of M. de Sarsec and Mr. Rassam, the recovery of the past is making great and important progress in the Tigro-Euphrates Valley.

Before the Society of Biblical Archæology a number of valuable papers have been read, of which the following is a list, as far as at present published. Thus, Mr. Sayce has contributcd two papers on the Nahr-el-Kelb Inscription, and a much more complete account in the Academy for May 19, 1882.-Mr. G. Pinches has communicated two papers, onc on a Cappadocian Tablet in the British Museum, obtained some years since from M. Alishan, and the other on a similar tablet now in the Bibliothèquc Nationale. Both are believed to have come from Cappadocia, which is confirmed by the text, and neither, though in a Cuneiform type, is written in either the usual Assyrian or Akkadian - a matter on which Messrs. Sayce and Bertin have contributed important letters, the latter belicving that the two tablets are non-Somitic. Mr. Pinches has also contributed a paper, being "Observations upon Calendars of the Ancient Babylonians, now in the British Muscum." Prof. J. Campbell has given a paper entitled " A Key to the Hittitc Inscriptions," and Mr. F. W. Eastlake one entitled "Uraku reorsus Sisku":-

The Rev. W. Monghton has followed up his usual Natural History sulbjeets by a paper "On the Birds of the Assyrian Records and Monuments" :-Lastly, Mr. Bertin has written "On the Rules of Life among the Aneient Akkadians." M. Oppert has also read before the Aeadémie des Inseriptions a paper " On the Chaldaean Inseriptions of Gudea," his ehief argument being that Inseriptions known as Sumerian are written, not only in a different character, but, also, in a different language, to that of the ordinary Cuneiform Inseriptious.

A good many books of interest in these studies have been published separately during the past year, some of them being enlargements of papers read at the meetings of different Societies. Of these the following may be noted. Thus, Dr. Heinrich Fischer of Freiburg, and Dr. Alfred Wiedemann of Leipzig, have published three tables of photographs and fifteen woodcuts of Babylonian eylinders in the Muscum at Grätz, which were originally presented to the Arehduke John of Austria by Mr. C. J. Rich, fifty years ago the British Resident at Baghdad. The tables are accompanied by mincralogical and archocological introductions. Mr. Hayes-Ward has published a curious book entitled "The Serpent-Tempter in Oriental Mythology," which appeared as a paper, some time since, in the Bibliotheca Sacra; in this paper he elaims to have proved that the Cuneiform legend supposed by the late George Smith to contain an account of the Fall, is really a hymn to the Creator. Be this as it may, it is certain that Mr. Ward's paper is one of much research and not to be passed over without eareful examination by future students of these matters.Prof. Paul Haupt has recently published at Leipzig "Die Keil Insehriftliche Suntfluth-bericht, eine Episode des Babylonisehen Nimrod-Epos," a popular tract, which the writer proposes to follow up with the text of the Floodtablets, translation, and notes; and, bearing on the same
subject, indeed in some degree supplementary to it, Prof. Schrader has issued (or is about to issue) a new and revised edition of his "Keil-Inschriften und das Alte Testa-ment."-It is understood that Dr. Haupt will, also, shortly publish as a separate brochure his paper on the pre-Semitic Dialects of Babylonia, the Accadian and the Sumerian, which he read before the Berlin Congress. -The 4th Lieferung has also been issued of the Bibliothek Assyriologische, edited by Drs. F. Delitsch and P. Haupt.-Inter alia, it may be mentioned that Mr. Pinches is about to publish a series of unedited texts in the Cuneiform cha-racter.-A large collection of new Assyrian remains has been deposited in the British Museum during the past year. Among these may be specified a considerable number of Contract Tablets found at Babylon, and dated in the fifth year of Antigonus and the eighth year of Alexander IV. or Egus, to whom the Canon of Ptolemy assigns twelve years, though historians only give him six. The Museum has, also, received nine cases, representing a portion of the results of Mr. Hormuzd Rassam's last year's researches in Babylonia. The tablets are generally small, but, in whole or in fragments, are estimated at not less than 5000 in number. Their subjects, as far as yet ascertained, are generally trade documents, contracts for the supply of corn and the like. Most of these are dated in the reigns of Samassumukin and Kandalana, the Chinladanus of the Greeks, who were contemporary with the latter half of the reign of Assurbanipul, в.c. 646.-Most recently we may notice an important paper by M. Hommel, slightly modified by Prof. Sayce (Acad. May 20, 1882), on the definite meanings of Sumir and Accad. The paper is too long for even an abstract in this place ; but those who are interested in this branch of Assyrian research will do well to give it their special study. Mr. Hommel, in it, does ample justice to the previous rescarches of MM. Lenormant, Pinches, Haupt,
and Delitzsch.-Bcfore the Académie des Inscriptions M. Halevy has again repeated his views on the question of Sumir and Akkad, but without, as it would seem, advancing any new proofs in favour of his contention. It may, however, be added that the king whose name, in M. de Sarsec's Inscriptions, M. Oppert reads as "Gudea," is ealled by M. Halery " Nabu."

Egyptolog!. -The work of the last year has certainly not been inferior to that of former years, and the Societies which devote themselves to this branch of antiquarian study have not been idle. Thus, from the Transactions of the Biblical Archæological Society we learn that Dr. Birch gave at their first meeting an account of the Discoveries at Deir-el-Bahari; that the Rer. I. G. Tomkins read a "Notice of the Campaign of Rameses II. in his fifth year, against Kadesh on the Orontes" ; that Mr. P. Le Page Renouf contributed a paper "On wrong values commonly assigned to Hieroglyphic groups," and also one " On Egyptian Mythology, Mist, and Cloud"; that Prof. E. L. Lushington wrote "On the Stêle of Mentuhotep"; and W. Flinders Petrie "On Pottery and Implements collected at Giseh and in its neighbourhood "-the large majority of these specimens being of a late period, not earlier than the Persian invasion, and in a character essentially domestic. There were a few fragments, the writer remarked, of a more remote antiquity, perhaps as early as the Fourth Dynasty, the same being, in manufacture, decidedly superior to those a thousand or more years later in date.-The chief events of the year, however, hare been the remarkable discoveries which have been made in the country itself. Among these, the most important has been that at Deir-el-Bahari (a very full account of which has been recently drawn up by M. Maspero, with twenty photographs), the exact site of which has, at last, been revealed by an Arab, the spot having doubtless been
known to the native explorers for many years, though the secret had been well kept, for obvious reasons. The main facts of these discoveries were the finding of a shaft, four feet square, twenty-five feet deep, by which a horizontal passage about sixty feet long was reached, which was found strewed with coffins and other remains. These have been secured, and are now deposited in the Museum at Boulaq. It appeared, further, that the coffins and mummies of various royal persons had been removed from their earlier places of sepulture, as, for instance, the coffin and mummy of Taakan III., described in the account of the robbery of Rameses IX., which is found on the Abbot Papyrus in the British Museum. One of the mummies of the Eighteenth Dynasty may have been that of Aahmes I., the monarch who drove the Shepherd Rulers out of Northern Egypt ; but, as this mummy had been subsequently placed in the coffin of a private person, there is some doubt on this subject. The wife of this king, Aahmes-Nefert-ari by name, was apparently an Æthiopian, and her mummy has also been found with those of the princes and princesses of the family of Aahmes. The coffin and the mummy of Amenophis I., the successor of Aahmes, has also been discovered; and that of Thothmes III., but so mutilated, that neither his features nor his stature could be made out. The latest monarchs whose remains have been found are those of the Twenty-first Dynasty, for whom this mummy-pit seems to have been originally constructed.

In the Athenæum and Aeademy, as usual, are many important essays, reviews, or letters, bearing on Egyptian matters. Of these, in the former Journal, may be noticed an account of the newly-discovered pyramids, viz. that of Unas, noar the step-shaped Pyramid of Sakkarah, and the so-ealled Mastubat el Fardoom, whieh M. Maspero has shown, from the paper impressions of the Inseription he sceured, to be that of Noferkera (Nephereheres), the grandson of

Pepi I. :- 1 letter from the late Mr. Sharpe "On the Inventor of the Leap-year," in which he expresses the opinion that Ichonuphys, an Egyptian astronomer, was the real inventor of the intercalary day of every fourth year (our February 29th), as it is known that he was the teacher of Eudoxus, the reformer of the Greek calendar. Hitherto, the invention has been given to Sosigenes, who aided Julius Cossar, in what, from him, has since been called the Julian era : - A notice, only fuller, of the discoveries at Deir-elBahari, with the further statement of M. Maspero's researches in the Pyramid of Mcydum.-There is also a carcful review of Prof. Rawlinson's "History of Ancient Egypt," a companion rolume to his previous labours on "The Fire Great Monarchics of the Ancient World," and, as such, "not the exposition of a cherished theory, but the outcome of careful reading":-of M. Pierret's Panthéon Egyptien, a well-conccived system of Egyptian mythology, and a useful book of reference for Egyptologists:-and a very full review of M. Maspero's now published work "La trouvaille de Deir-el-Bahari" :-and of Mr. Laurence Oliphant's amusing work "The Land of Khemi."

In the Academy, the following are deserving of notice :Thus, Miss Edwards, so well known for her knowledge of ancient and modern Egypt, as for the zeal with which she has pursued this class of studies, contributes several interesting reviews or letters. Of the former, are those of Mr. S. L. Poole's book on Egypt, a well-written and succinct notice of the country, with good maps and illustrations:-of Canon Rawlinson's History of Ancient Egypt, which she does not consider a valuable addition to existing, or even a popular knowledge on this subject:-a clear account of the great discovery of the Deir-el-Bahari, Aug. 13 :-and two much fuller accounts, Aug. 27 and Sept. 3, mainly furnished to her by the courtesy of M. Maspero, and correcting, as might have been expected, some exaggerated reports which
had appeared in the papers, shortly after the first discovery became known. Miss Edwards's general conclusion in this case seems to be, that the hiding-place of the Deir-elBahari had been certainly known to the Arabs for the last twenty-two years. In the number for Oct. 1 the same writer gives a description of the Prince of Wales's Papyrus, now in the British Museum, and suggests its connection with another papyrus, found, it is believed, at or near Deir-el-Bahari, and now in the Louvre. The Louvre Papyrus, she says, "is a document without a beginning; the Prince of Wales's Papyrus is a document without an end: what the Louvre Papyrus wants, the Prince of Wales's Papyrus supplies :"—also, a further paper (Nov. 5) on " A New Royal Papyrus":-On Jan. 7, 1882, Miss Edwards recurs to the Deir-el-Bahari discoveries, and states that they were really those of M. Maspero, though M. Emil Brugsch brought these treasures to Boulaq:-in the same number, describing M. Maspero's second successful adventure, the opening of the Pyramid of Meydoom, and, in reference to the last subject (Feb. 18), giving, also, a valuable letter from the Hon. J. Villiers Stuart:-Miss Edwards has, also, found time to provide for the Academy a review of Sir Erasmus Wilson's work: -of Mr. Laurence Oliphant's "Land of Khemi," with a notice of an Early Christian Church at Philæ.-Other papers, etc., of importance, are Dr. Birch's notice of the new Pyramid at Sakkara:-Mr. Le Page Renouf's account of the Stêle of Menuhotep:-A good suggestion of Mr. Spencer G. Perceval of a loan exhibition of Egyptian antiquities, for the purpose of identifying many such objects as arc probably in private hands:-a letter from M. Naville, entirely confirming Miss Edwards' suggestion that the Prince of Wales's Papyrus and that in the Louvre are in fact two halves of a single roll :-a Report of the French School of Cairo, presented by M. Maspero, to the Minister of Public Instruction, demonstrating, in a remarkable manner, the
aetivity of France in the department of Egyptology:-a long and important letter from Prof. Sayce, "On a new find of Inscribed potsherds in Upper Egypt," some of the Inscriptions on them being in Demotic, while the majority are in cursive Greck. Mr. Sayce states that they are of all sorts of ages, some being as late as Domitian, and others, as early as the remote period when the Thebaid was oceupied by Ethiopian kings. We may add, that though written with Greek letters, many of the texts on these potsherds are not in the Greek language. Lastly, it must be noted that, in the Times of Aug. 4, a very full account has been given of these recent Egyptian discoveries.

Among books issued during the past ycar, are-" Recueil de Travaux relatifs à la Philologic et à l'Archéologie Egypticnucs et Assyriennes, vol. iii. pts. 1, 2," in which are Notice sur un textc hiéroglyphique de Stabel-Antar par W. Golenischeff:-Notiec sur un Ostrakion hiératique du Musée de Florenec (avec deux planches) by the same:Deux Inscriptions de Mendés par Karl Piehl:-Dialectes Egyptiennes par Auguste Baillet:-Les Fêtes d'Osiris au mois de Khoiak par V. Loret:-Sur un papyrus inédit du British Museum par W. Pleyte:-Petites notes de critique et de philologie par Karl Piehl :-Le Temple d'Apet (avec une planche) par M. de Rochemonteix:-Observations sur une date Astronomique du haut Empire Egyptien par F. Robiou:-and Rapport sur une Mission en Italie (suite) par M. Maspero. The twelfth, and for the present the last, of the useful series called "Records of the Past," is entirely devoted to Egyptology, and contains five articles by Dr. Birch, two by M. P. de Horrack, and one by M. Lefébure, M. Ludwig Stern, M. Pierret, M. Naville, M. G. Maspero, Mr. P. Le Page Renouf, and Dr. E. L. Lushington, respectively. Mr. W. H. Rylands, M.R.A.S., gives, at the end of the volume, a very useful table of contents for the whole trelre volumes. Parts ii. and iii. of the second year of
the Revue Egyptologique contain papers by F. Lenormant, Sur les Monnaies Egyptiennes, etc.:-and by M. Revillout, numerous short papers, of which the following is a listSecond Extrait de la Chronique Demotique de Paris:Statue d'un Royal Ministre, etc.:-Les Affres de la Mort:-Le Serment décisoire chez les Egyptiens:-La Requête d'un Tarichente d'Ibis à l'Administrateur du Sérapeum:-L'Antigraphie des Luminaires:-L'Entretiens philosophiques d'une chatte Ethiopienne et d'un petit chakal Koufi:-Un quasi-marriage après Concubinat:La Femme et la mère d'Amasis:-Un prophéte d'Auguste et sa famille:-Authenticité des Actes:-Le Papyrus Grec 13 de Turin:-La Loi de Bocehoris et l'interêt à Trente pour cente:-and Le Reclus du Sérapeum :-together with a brief paper by M. P. Pierret.

Of individual books that have come out recently may be noticed, the republication of A. J. Letronne's "Egypte Ancienne," in 2 vols., under the editing of M. Fagnan :M. Pierret, Le Decret Trilingue de Canope:-M. K. Piehl, Petites études Hiéroglyphiques, Stockholm:-and Brugsch Pasha, Hieroglyphisch-Demotisches Wörterbuch, vol. vi. 2 Heft.

Zend, Pahlavi and Persian.-In the Athenæum are reviews of Mr. A. N. Wollaston's English-Persian Dictionary, collected from original sources-a work which has bcen long wanted. Mr. Wollaston, who is well known for previous works connected with Persian, has on this occasion been aided by Mirza Baker, formerly a Bushire Munshi, and a large number of new words were obtained from a colleetion made by Mr. Biming, of the Madras Civil Service. From the same paper we learn that Dr. Neubauer has obtained in Paris a few Persian MSS. written in IIebrew characters. MSS. of this class are not common, indeed we believe that none of our great libraries have had any till M. Neubaucr
procured these. The Paris Library has some, among others an apocryphal history of Daniel. The Imperial Library at St. Petersburg has two, one of which contains a fragment of a Hebrew Talmudical Dietionary. Therc is, also, an claborate as well as appreciative review of Major Wilberforce Clarke's two translations from the Persian, viz. the Bustán of Sa'di and of the Sikandar Náma e Bara; and we learn from the same paper that Miss Helen Zimmern is refashiouing in simple language the storics told by Firdusi in his Shah Nameh, which were partly Englished in 1832 by Mr. James Atkinson. Miss Zimmern's book will be called the " Epic of Kings," and have etchings in it by Mr. Alma Tadema, R.A.:-and, we hear that, on the recommendation of the Fifth Oriental Congress, Messrs. Asher \& Co. have undertaken to publish the Monuments and Inscriptions of Persepolis, Istakhr, Pasargadx and Shahpûr, from the Photographs of Dr. Stolze. Prof. Noldeke supplies a commentary on the Inscriptions. The first rolume is out.

In the Academy is a review by Mr. S. L. Poole of Mr. Redhouse's Mesnevi ; and of Mr. Whinfield’s Omar Khayam; and, from the same periodical, we learn that Mr. W. H. D. Haggard, M.R.A.S., late Secretary to the English Legation at Teheran, and Mr. Guy Le Strange, M.R.A.S., are going to publish jointly the Vazîr of Lankurân. The object of the joint editors is to proride a text-book of modern colloquial Persian for the use of students and trarellers. Appended is a translation, a grammatical introduction, and a rocabulary showing the pronunciation of the words: and further that Dr. F. C. Andreas has published a facsimile of the Pahlari text of the Book of the Mrainyo-i-Kharl, a MS. of the sixteenth century, brought from Persia by the late Prof. Westergaard in 1843. It is the only known MS. of the original Pahlari text of this work. The codex has been finally deposited in the Cniversity Library at Copenhagen, and proves to be more raluable than Professor Westergaard supposed. The

Revue Critique states that the Bibliothèque Orientale Elzivirienne has recently published the thirty-first volume of this Collection, entitled Kitabi Kulsum Nameh, or the Book of Persian Women, containing Rules for Manners, Customs, etc., under the editing of Mr. Thonnellier. In the same Journal M. Darmesteter reviews MI. Geiger's Handbuch d. Awesta-Sprache-Grammatik, Chrestomathie und Glossar, which he considers to be very well done; and, also, M. C. Bartholomae's Die Gathas und heiligen Gebete d. AltIranischen Volkes, of which his notice is equally favourable. There is, also, a brief review of Major Clarke's Sikandar-iNameh, by Mr. S. L. Poole, in which the merits and demerits of this work are well pointed out.-The same reviewer has, also, noticed a very different work, the Translation of Jami's Yusuf and Zuleika by the distinguished head of the Sanskrit College at Dehli, Dr. R. T. H. Griffith, whose previous practice in his translation of the Ramayana must have fitted him for that of Jami.

In the D.M.G. are articles by M. Noldeke, entitled " Die beste d. Arischen Pfeils im Awesta und im Tabari"; by F. Justi, Ueber die Mundart von Jezd; by F. Spiegel, Ueber das Vaterland und das Zeit Alter des Awesta; a brief communication from M. C. Bartholomae, Ueber die Kopie einer Zend-Handschrift in der Bibliothek der D.M.G.; by M. Houtuin Schindler, Die Parsen in Persien, ihre sprache und einige ihrer gebräuche; a notice by M. F. Teufel of Dr. Ethe's Text and Translation of Nâsir Chosrau's Rusanainâma; and by the same, of M. Fagnan's Le livre de la Felicité, by Naçir-ed-din ben Khosrou. In the Revue Critique for July, 1881, is a review of Dr. Rieu's Catalogue of Persian Books in the British Museum, by M. Fagnan.

We are glad to learn that the Prix Volney has been a warded to M. Darmesteter.

Kurd.-The indefatigable M. James Darmesteter has
given in the Rev. Critique for April 2, a very interesting review of M. Auguste Jaba's Dictionnaire Kurde-Français, published by order of the Imperial Academy of Sciences at St. Petersburg ;-of F. Justi, Kurdische Grammatik, and by the sane writer, Ueber dic Mundart von Yezd. M. Darmesteter prefaces his paper by an useful summary of what has becn done up to the present time on the subject of this language, from Father Garzoni in 1787, to the Rev. A. Rhea in 1872.

Armenian.-In the Trans. D. M. G. xxxv. 4 and xxxvi. 1, Dr. H. Hubsclmann gives two more papers under the title of "Armeniaca," ii. and iii.

Turkish.—More than half a century ago, Vou Hammer introduced to his countrymen the rich and varied poetry of the Ottomans in his "Geschichte d. Osmanischen DichtKunst." Recently, M. de Sugny has done nearly the same service to French readcrs. In England very little has been hitherto done-but Mr. Rcdhouse has published a brief but excellent little treatise On the Mistory, System, and Varieties of Turkish Poetry, originally read by him before the Royal Society of Literature in 1879. Mr. E. J. W. Gibbs, M.R.A.S., has now proceeded a step farther, and has issued a selection of Ottoman poems from the foundation of the Empire to the present time, translated into English rerse in the original times and measures. In a recent number of the Vakit, or Turkish Times, is a Ghazal in six verses, by one of the Cabinet, a late Prime Minister, the learned Munif Pasha. From the Athenæum we learn that a new Turkish and French Dictionary is now being compiled at Constantinople by Munif Pasha and Constantinidi Effendi. Having both been engaged in the Foreign Office, both are familiar with many words that have been recently adopted as representatives of Western ideas;-and, also, that a new Literary and

Scientific Journal has been authorized, entitled Khazina-iEorak (Treasure of Documents), which will appear weekly. Its supporters include Munif Pasha and other known writers.
M. Barbier de Meynard is publishing, under the auspices of the Haute Ecole des Langues Orientales a Supplement aux Dietionnaires Tures, which is remarkably rich in Turkish proverbs and idiomatic phrases. Two parts are out, bringing down the work to the third letter of the alphabet. There is to be a History of the Turkish Language and a Bibliography of all European works having any relation with its elucidation.

Numismatics.-For Numismaties the following papers, etc., may be cited. Thus in the Journal of this Society, are papers by M. Sauvaire, Sur quelques monnaies orientales rares ou inedites de la Collection de M. Ch. de l'Eeluse :-by Mr. E. Thomas, F.R.S., On the Epoch of the Guptas:-by Mr. Rodgers, On a Coin of Shams ed Dunyâ wa ud Din Mahmud Shâh :-and by M. Sauvaire, On Arab Metrologr, Ed-Dahaby. In the Numismatic Chroniele, are papers by Gen. A. Houtum-Schindler, On the Coinage of the decline of the Mongols in Persia:-by the Hon. J. Gibbs, On Gold and Silver Coins of the Bahmani Dynasty :-by E. Thomas, F.R.S., Bilingual Coins of Bukhára:-by M. H. Sauvaire, Lettre à M. Stanley Lane Poole, Sur un fels Saffaride inédit de la Collection de M. Ch. de l'Eeluse:-by M. de La Couperie, On the Silver Coinage of Tibet. In the D. M. G. xxxv. 2, 3, is a paper by Dr. J. G. Sarekel, entitled Morgenlandsehe Munz-Kunde. In the $\Lambda$ cademy are notices of the sixth volume of Mr. Poole's Catalogue of Oriental Coins in the British Museum ; a severe review by M. La Couperic of Mr. Delnar's Monograph on the History of Money in China from the carliest times to the present. In the Indian Antiquary are papers by Dr. Oldenberg, on the dates of
ancient Indian Inscriptions and Coins; and remarks by the Editor on Coins of Kharibael, described by Major Prideaux, and by Mr. Thomas, On Coins of the Arabs of Sinde.

The most important work of the year is, no doubt, the continuation of the "Numismata Orientalia," the second volume of which is entirely occupied with Mr. Madden's Essay on the Coins of the Jews, a sccond and much enlarged edition of his well-known work "The History of Jewish Coinage, ctc." This work has been fully reviewed in the Times and Academy, and also, in "Le Monde," Mai 5, 1882. Yol. iii. pt. i. is also out, and contains Coins of Arakan, of Pegu, and of Burma, by Lieut.-General Sir Arthur P. Phayre, C.B., G.C.M.G., K.C.S.I. In the Calcutta Review is an amnsing article by Mr. Rodgers, On portable Indian Antiquities, chiefly Coins; and, in the Revista de Ciéncias Historicas, for June and July, 1881, there is an excellent article, with engravings and translations, by F. Codera y Zaidin, On the Arabic Coins of Tortosa in the twelfth Century, forming a most authentic history of this petty Moorish kingdom.

From the Proceedings of the Bengal Asiatic Society we learn that a good many small collections have been exhibited at the different, meetings of the Society, with notices of them by different members and others. Thus Rajendralala Mitra has exhibited some coins of the Sah Kings, sent to him by Mr. Rirett Carnac:-the Hon. Mr. Gibbs has giren an account of a gold Ramtunki:-Mr. Tawney has exhibited a coin of Sophytes. In the Journal are papers by Mr. Rudolph Hoernle, On a new find of Muhammedan Coins:by Mr. Rodgers, On the Coins of the Sikhs:-and by Major F. W. Prideaux, On the Coins of Charibael, the King of the Homeritos and Sabæans.

In the North China Journal, Dr. S. W. Bushell, M.D., writes at some length on coins of the present Dynasty of China, with 90 plain cuts, and two coloured plates.
M. Zobel de Zangroniz has, we hear, obtained the Hauteroche prize.

Epigraphy.-We noticed last year, at some length, Mr. Schlick's discovery of a Hebrew inscription in a watercourse leading to the Pool of Siloam, at Jerusalem, and the detailed account drawn up by Mr. Sayce, and published by the Palestine Exploration Fund, of all that was at that time known about it. Since then different scholars, in different countrics, have taken up its study, such as Mr. Isaac Taylor, MN. Derenbourg and Halevy, Mr. T. K. Cheyne, Mr. Neubauer, Drs. W. Wright, Guthe, and Kautsch, the present opinion being, generally, that it is not quite so old as Mr. Sayce originally thought, but, probably, as early as B.c. 700 .Another Inscription, in cuneiform writing, which has recently much interested students, is one found on the cliff above the Nahr el Kelb, near Beirut, the first notices of which we owe to Canon Tristram. Here, again, a number of letters and papers have been written by various scholars, as by Mr. Boscawen and Mr. Sayce, the latter of whom read two papers on it before the Society of Biblical Archreology. Sir H. C. Rawlinson bricfly noticed it before this Society on Nov. 19, 1881. Long exposure to the weather and other accidents had, however, so injured it, that, at first, only the general drift of it could be made out, even from the squeezes procured by Dr. Tristram. Quite recently, however (see Acad. May 13, 1882), Mr. Sayce has received from Dr. Loytved, the Danish Consul at Beirut, some frcsh photographs and squeczes (M. Lenormant has, also, presented a similar set to the Académic des Inseriptions). The result being, that it is, as was at first scen, a monument of Nebuchadnczzar, not, however, historical, but rather an account of the construction of certain public works in Babylonia, with a notice of the sacrifices made by the King to some of the gods of Babylon. Some of the details are
curious, as the occurrence of the name of Khibunu or Hilbon, the place whence the wines were procured for the service of the Babylonian temples.

But the most important work of the last year has been the publication, after fourteen years of preparation, of the "Corpus Inscriptionum Semiticarum," issued under the auspices of the Académie des Inscriptions. This work was appropriately presented by the French Governinent to the Orieutalists assembled last autumn at Berlin. It would be out of place here to go into any general description of this important volune. Suffice to say, that under the general editorship of M. Renan, no scholar can doubt the accuracr of the work done. This first portion, now published, contains fifty Phœnician Inscriptions, with a Latin translation and commentary by MIM. Renan, Derenbourg, and others: they include the two most important ones found by M. de Togué at Gebel; and the Sidonic inscription on the Sarcophagus of King Asmunazar. The bulk of them come from Crprus, and are now in the British Museum or at New York. Full details of this work will be found in the Athenæum of Jan. 21, 1882. We wish "God speed" to the rest of this valuable work of the French scholars. It may be added that in the Rerue Critique of Nov. 14, 1881, M. Halery has given a careful reviem of this work.

In the Proceedings of the Society of Biblical Archæology are two papers by Mr. Pinches (already noticed under the head of "Cuneiform") on Inscriptions from Cappadocia:a letter from Mr. Sayce to Mr. W. H. Rylands on the same subject, with a tentative reading:-on three seals bearing Phœnician Inscriptions, by Dr. W. Wright:-and by Mr. Frothingham on the Hebrew word "Adonai," recently detected in the Mausoleum of Galla Placidia at Ravenna.

In the Indian Antiquary, Mr. Fleet goes on with his Sanskrit and Old Canarese Inscriptions, Nos. xcix.-cxxiii. :-Dr. Bühler offers a new Kshatrapa Inscription :-H. H. Dhruva,
an Inseription of the Chaulukya King, Jayasimna Deva:J. F. Fleet, one of Rudradêva from Anamkond, and thirteen sent to him by Mr. Sewell:-the translation of a paper by H. Oldenberg, On the Dates of Ancient Indian Inscriptions and Coins, originally published in Mr. von Sallet's Zeitsch. f. Numismatik, Berl. 1881 :-a continuation of the readings from the Bharhut Stupa, by Dr. A. F. Rudolph Hoernle :-a note on the word "Siddham" used in Inscriptions, by Dr. Bühler:-Forged Copper Plate Grant of Dharasena II. of Valabhi, by the same:-Readings from the Arian Pali-the Suë Vihar Inseription - by Dr. A. F. Rudolph Hoernle :-On a Chinese Inscription from BuddhaGâya, by Prof. Beal :-On an Inscription at Gâya, dated in the year 1813 of Buddhâ's Nirvana, by Pandit Bhagwanlal Indraji :-Sanskrit Grants and Inscriptions of Gujarat Kings, by H. H. Dhruva, Nos. 2, 3, and 4:-A Baktro-Pali Inscription of Suibâhâra, by Pandit Bhagvanlal Indraji:-and three Inscriptions from Raichor, by E. Rehatsek, Esq.

In the Annales de l'Extrême Orient for Feb. 1882, is an interesting account of what M. Kern has been able to do towards the decipherment of the Cambogian Inscriptions, to which we have already alluded. Dr. Kern's paper is accompanied by four excellent lithographic plates.

In the Revue Critique are notices of a remarkable discovery, in sit $\hat{u}$, at Palmyra, by the Russian Prince Lazarev, of a long Palmyrenian Inseription, and of another in Palmyrenian and Greek:-of a collection of Phonician Inscriptions, in number seventy-seven, originally, as it would seem, in the collection of the Bey of Tunis and preserved in the Palace at Manouba, but without record of the places where found. They have, already, been partially deseribed by M. de Maltzan, and will hereafter be included in the Corpus Inscriptionum Semiticarum:-by M. Renan of a diseovory by M. Ganneau, near Gezer, of an Inseription supposed by him to mark the limit of a "Sabbath-day's

Journer," and, also, of a stone inseribed with Phœnician letters, seareely decipherable:-by M. Aymonier, on an Inscription in the Cian or Chan Language from Dambangdêk, Cambogia, with a translation.

In the D. M. G. are papers by Dr. Sachau, on Inseriptions from Palmyra and Edessa :-by F. Pretorius, on the Bilingual one from Harran, and on the Trilingual one from Zebed:-by J. II. Mordtmann, junr., on two Himyaritic Inscriptions:-by II. Oldenberg, On the date of the new pretended Inseriptions of Asoka.

In the Athenæum are notices of the first part of Dr. A. Berliner's edition of the Hebrew Epitaphs, still existing in ltaly; containing about 200 tomb inscriptions in Venice from the sixteenth and seventeenth centuries, the title of his book being, "Loohoth Abanim, Hebraische Grabsehriften in Italien." The collection here deseribed belonged, originally, to Dr. Moise Soave. In the work of the Palreographical Society is an important inscription (now in the British Museum), Greek at the top, Palmyrene below, recording the dedieation by Ay-Thangelus of Abila, in the Decapolis, of a canopy and couch to Zeus Keraunios, for the safety of the Emperor Hadrian, Seleueid era 447, a.d. 134. There is much interest in the palæographical details. In Dr. Rahmer's paper issued at Jagdeburg, under the title of "Das Indische Literaturblatt," is a notice of the discorery, in Palestine, at Amoras (Anwas:), of an Ionic column, bearing two inseriptions, the one in Greek, the other in Samaritan:-with a further detail of the same (Dec. 10) in a letter from Mr. Besant:-and a further note from Dr. Neubauer, on the same subject (Dee. 17, p. 184) :In the new part of the Palæographical Society's publication are faesimiles of a Latin-Greek-Phœnician Inseription of в.c. 160-150 :-the Oriental Series, in twelse plates, containing, inter alia, a Sanskrit MS. of A.D. 1198-9: the Gotha MS. of the Mabsât, written by a Turkish woman in
the years A.D. 1109-10 : a Kalilah-wa-Dimnah of A.D. 1259 : a series of Arabic Coins, A.D. 1221-1819: the Siloam Inscription : the Pentateuch in Hebrew, Arabic, and Samaritan of A.D. 1227: the Siphrâ of A.D. 107 $\dot{3}$ : and a Coptic MS. of A.D. 979. It may be added here that Dr. Caruana has completed his report on the Phœnician and Roman Remains in the Island of Malta-the first portion being wholly devoted to Phœenician antiquities, and giving an account of the rough stone monuments, pottery, glass vessels, monuments of sculpture, inscriptions, coins, and Phœnician remains in the Maltese idiom. The French Asiatic Society has received from M. Aymonier copies of fifty-two inscriptions collected by him in Cambodia. The majority of these are in Sanskrit, mixed, however, often with vernacular dialects. M. Aymonier, is, we believe, now in Cambodia, on an Archæological Mission.

Africa.-During the past year two articles have appeared in the Journal of the Asiatic Society with reference to work done in the case of Africa. Thus, the Rev. Mr. Schön has given us an exhaustive account of the Hausa Language, of which, during his long residence as a missionary in Africa, he had a large experience; and Mr. R. N. Cust, our Mon. Secretary, a brief resumé of the chief work done by African scholars, grouped under the leading heads, it is understood, of a more complete work on the Languages of Africa, on which he has been for some time engaged. In the Calcutta Review, Feb. 1882, Mr. Cust has published an article on these languages.

The following remarks, which are in no sense exhaustive, represent fairly the activity of the Missionarics and others who take an interest in acquiring and making known the various languages and dialects of Africa. Thus, in the Ifamitic Group, Prof. Leo Reinisch, of Vienna, has just issucd "Die Bilin-Sprache in Nord-Afrika" (Wien, 1882),
as he had, also, a short time previously, published "Die Kunama-Sprache in Nord-Ost-Afrika":-Prof. Ahlqrist, of Upsála, in Sweden, a Grammar of the Bishari Language on the Middle Nile :-and the veteran scholar, F. W. Newman, a Dictionary of the Numidian Langnage, that is, of the languige spoken, in the time of Augustus, br the Numidians, Mauritanians, and Gietulians. Mr. Newman derives his material from the modern tongues spoken in the North of Africa, after carefully eliminating all words borrowed from the Arabs or from the adjoining Negro districts. His work, and the manner of his treating of it, are of the highest interest to all scholars.

Negro Group.-Bishop Crowther is publishing, with the aid of the Society for Promoting Christian Knowledge, a Vocabulary of the Isoama Dialects of the Ibo Language, one of the most important rernaculars of the Niger basin Mr. Schön has prepared a Grammar of the Mende Language, on the Sierra Leone Coast, which is in course of publication by the same Society:-Dr. Christaller has published at Basle a Grammar of the Ashanti Language of the West Coast (with English renderings) :-Other Dictionaries and Grammars are, a Dictionary of the Suahili Language on the East Coast, with English reuderings, by Dr. Krapf, who just lived to see the completion of a work to which he had giren so much of his time and labour :-The Missionaries of the Liringstone Congo Mission have republished a Grammar of the Congo Language, which belongs to the great Bantu family. Two centuries since, when the Portuguese power flourished in those regions, Brusciottus di Tetralla, a Jesuit, published a Grammar in 1659 in Latin. It has been lately translated into English by Mr. Grattan Guinness. Copies of the original exist in the British Museum and at Rome :A Grammar of the Ruganda Language, on the Victoria Nyanza, by the Rer. C. T. Wilson, published by the Society
for Promoting Christian Knowledge:-A Grammar of the Bondei Language, on the East Coast, by the Rev. H. W. Woodward :-Another Grammar of the Congo Language is preparing from original sources by Mr. Guinness:-and a Dictionary of the same language, with French renderings, will be published from a MS. in the Grenville Library:The Rev. Mr. Kolbe, with the aid of the Rev. Mr. Brincker, has also compiled, at Cape Town, a Dictionary of the Heréro Language, spoken in Damara Land, on the West Coast:while Messrs. Sanders and Miller (of the American Mission) have already learned sufficient of the Ambunda language on the West Coast to speak a little with the people:-Mr. Sanders has collected 1000 words and is at work on the structure of the language, previously to writing it down :Mr. G. McCall Theal, who has resided for twenty years in Africa, has just brought with him to England a collection of Káfir Folk Tales, which are to be sent at once to press: they will be prefaced by an introduction on the Káfirs, their customs and mythology :-A letter from the late Bishop Comboni, written just before his death, states that his companion, Père Losi, had compiled a Dictionary of the language spoken in the Nuba Mountains, containing 3000 words in ordinary use (Acad. Dec. 10, 1881):-A Hymn-book has also been published in the Nika Language of the East Coast by the Church Missionary Society.

In addition to these separate works, linguistic notices have appeared in the text of many volumes of general Travel, which are of the highest importance. The second volume of Dr. Nachtigall's Sahára and Soudan supplics most important (and previously unknown) information on the languages of the Chad basin. Again, in the Portugucse volumes of travel, by Capello and Ivans, on the West Coast, are vocabularies of previously unknown languages. The monthly Reports of the great Missionary Societics abound in brief notices, which promisc, in a few years, an abundant
harrest of new grammatical works, both for the East and for the West Coast. Professor Reinisch notifies the immediate publication of a series of works in the Bogos and Dankali languages, which are spoken to the north and south of Abyssinia.

British and Foreign Bible Society. Report of the Bibles or parts of Bibles translated during 1881.-Ararat Armeniun.The printing of an edition of Amirchanianz's revision of the New Testament at Constantinople, is now nearly completed. The edition consists of 5,000 copies, and the proofs are being read by Pastor Simon.

Amirchanianz has given a final revision to his version of the Old Testament, and the work will be printed under the care of Pastor Simon at Constantinople.

Amo!, Colloquial.-The printing of the Books of the Old Testament progresses steadily under the care of Dr. Maxwell, the editor. During the year, I. and II. Samuel, I. and II. Kings, Esther, Isaiah and the Book of Psalms have been completed.

Ilukia Colloquial (Roman character).-At the request of the Rev. Inspector Schott, of Basle, the Committee have anthorized the printing of an edition of 1,000 copies of Galatians, Ephesians, Philippians, and Colossians. The translation, which was forwarded by a Conference of Chinese Missionaries, was made from the Greek by the Rev. Kong Ayun, and revised by the Rev. G. A. Gussmann and the Rev. R. Lechler.

Hakka Colloquial (Native character).-The Committee have also, at the request of the Hong Kong Bible Society, sanctioned the publication of the Acts of the Apostles, uniform with the Gospel of St. Matthew, translated from the Greek, by the Rev. C. Piton, of the Basle Mission, who proposes to complete the translation of the remaining books of the New Testament.

Japanese.-The Reference Edition of the standard New Testament, prepared by the Rev. John Piper, was carried through the press by Mr. Lilley, and published on the 8th of June, 1881, at the expense of the British and Foreign Bible Society and the National Bible Society of Scotland. The first edition was one of 6,000 copies, of which 4,000 were on Japanese paper, and issued in two volumes in Japanese form ; and 2,000 on English paper as an English book. Comparatively few of the Japanese book have been sold, but a second edition of 2,000 copies of the English book has been called for and sold, and a third edition of 2,000 copies is now issuing from the press.

The Permanent Committee have published at the expense of the American, Scottish, and British and Foreign Bible Societies the translation of the Book of Joshua, made by the Rev. G. K. Fyson, of the C. M. S., and the three societies are now making arrangements by which it is hoped that the translation of the Old Testament will be greatly expedited.
Biruhi.-The Committee have resolved to print an edition of 1000 copies of the Gospel of St. Luke, translated by the Rev. J. Sheldon, with the assistance of a learned Munshi, and compared with the Urdu, Sindhi, Persian, and Arabic translations. The Biruhi are Mohammedans of the Suni sect, scattered throughout Biluchistan. The greater number are nomadic, and may be found with their flocks in Kutch Gundāvāra and about the Bolan Pass. Some of them are soldiers in the Biluch regiments, and some are in the police forcc. The men and women are employed in the cotton industry and other labour. They live in poor huts outside the towns, poorly fed and clad. Very few of them can read, but the children have good natural abilities. The Khan of Kelat is a Biruhi.
Persian.-The Rev. Robert Brucc's revision of Henry Martyn's New Testament has been thoroughly revised by Mr. Bruce and Professor Palmer, of Cambridge, and an
edition of 6000 eopies, in good type, has been printed by the Committee.

Santali--The Revision Committee in Santalisthan revised the Gospel of St. Matthew, and an edition of 1000 eopies has been published by the Caleutta Auxiliary Bible Society. The Revision Committee, uuable to determine whieh of the rival terms for God and Holy Ghost should be exclusively used, printed half the edition with the terms Cando and Sonat, and half with Isor and Dhurm Atma, and a note is added to eaeh part explanatory of the terms. The Rev. Mr. Skrefsrud has informed the Committee that he has the whole of the New Testament translated, and that he is willing to submit his trauslation to a committee for final revision.

Tibetun.-The Rer. H. A. Jaesehke is earrying through the press at Berlin for the Committee an edition of 5000 eopies of each of the Four Gospels. St. Matthew has already been published. The other portions, and the whole New Testament, will follow.

Trans-Caucasian Turkish. - Amirchanianz eontinues his translation of the Old Testament, and Dr. Sauerwein is reading orer the MS. of the Pentateueh with a view to test its general aecuraey. After Dr. Sauerwein, Amirehanianz will go over the whole Old Testament with a learned TransCaueasian, in order to test the correetness of the idiom.

Mandári. - An edition of 7350 eopies of the Gospel of St. Matthew, and 3000 eopies of St. John, have been issued by the Caleutta Auxiliary Bible Soeiety, and the Gospel of St. Lake is now ready for the press. This, with the Gospel of St. Mark, published in 1876, eompletes the Four Gospels, which the Rev. C. A. Nottrot, of the Gosner Missionary Society, has provided for the 25,000 Christians of his own mission, and the 10,000 Christians of the S. P. G. Mission, and the still larger number of non-Christian Koles of Chutia Nagpúr.

Rajmaháli.-The edition of 1000 copies of St. Luke, sanc-
tioned by the Committee, has been published, and is now being circulated among the people, numbering 100,000 , who inhabit the hill country round Bhagulpore. The Rev. E. Drose, who has spent nearly a quarter of a century among the people, and who is the only European that knows anything of their language, has also completed a translation of the Gospel of St. John, which is about to be printed.

Bengali (Roman character).-An edition of 1000 copies of the Gospel of St. Mark, transliterated from the common Bengali Testament, is being printed by the Calcutta Auxiliary Bible Society, accompanied by a key. The book is intended for those chiefly who wish to read Bengali to their servants, but who have not mastered the language.

Nyika. - The Rev. Thomas Wakefield's version of St. Matthew, for the Wanika tribes of the East Coast of Africa, has been published, and forwarded to the people for whom it was intended.

Nama (Khoi-koiv).-The translation of the old Testament was completed by the Rev. J. G. Krönlein, of Stellenbosch, on Oct. 25, 1881, early portions of the same having been begun on May 23, 1873. Mr. Krönlein, who is working at the joint expense of the British and Forcign Bible Socicty and the Rhenish Missionary Socicty, is now revising into one harmonious whole the entire books of the Old Testament.

Foruba.-The printing of the books of the Old Testament has proceeded throughout the year, with some delay in waiting for copy from the Translating and Revising Committee at Lagos. The Rev. D. Hinderer still continues to edit the edition for the Committec.

Suchiti.-Bishop Steere of Zanzibar has completed his revision of the entire New Testament, and the Books of Kings, and the Committee have resolved to print an edition of this work. The Gospel of St. Luke was the work of the Rev. J. Rebmann of Mombása, but the transliteration has been altered by Bishop Steere, who has provided a series of
reading lessons containing Old Testament History down to the time of David, and the two Books of Kings have been translated to complete the History. He and his helpers are now engaged in translating the Old Testament. He has printed Genesis at Zanzibar, Exodus and Isaiah on paper provided by the Committee, and these, when revised, will be forwarded to the Commitece for publication. The Bishop writes that he hopes at no very distant period to complete the whole Bible.

Jolof:-The Committee, at the request of the Wesleyan Missionary Society, have resolved to print a tentative edition of 500 copies of the Gospel of St. Matther. The translation was made by the Rev. R. Dixon, of Bathurst, Gambia, for a people numbering about 50,000 souls. Mr. Dixon had used his version in the serrices, and found it was understood and liked, and he had gone over it twice with one of the Joloffs.

Telugu. - The interim Bible published by the Madras Auxiliary Bible Society, with the sanction of the Committee, has been eagerly received, and another edition has been undertaken. The Old Testament consists of the old version, Genesis as revised by the Delegates in 1873, and Exodus, Leviticus, Psalms, and Proverbs as translated by Mr. Hay. The New Testament consists of the Revisers' first revision of the Four Gospels, and the remainder of the book as originally translated by Messrs. Wardlaw and Hay.

Malayalam.-The new edition of the Bible, except the closing books of the New Testament, the revision of which is almost complete, has been issued by the Madras Auxiliary Bible Society. The Revision Committee met at Calicut, and carried their work to the end of Hebrews, and Mr. Knobloch earried through the press the Epistle to the Romans. The Rerision Committee hope to give a final touch to the New Testament in 1882, and begin the Old Testament in 1883. Dr. Gundert is proceeding with his translation of the Old

Testament in Germany, and his work will form the basis of revision.

Gujarati--The Revision Committee, consisting of seven or eight missionaries, meet every week to revise the Old Testament.
Marathi. - An edition of the Old Testament, with paragraph headings prepared by Mr. Baba Padmonji and approved by the Translation Committee, has been issued by the Bombay Auxiliary. An edition of St. Mark, with paragraph headings, has also been issued.

Marathi (Roman character) and English.-An edition of 500 copies of the Gospel of St. John has been carried through the press by Dr. Murray Mitchell.

Tamil.-The Jaffna Revision Committee has met, and now propose in company with the Madras Committee to revise the entire New Testament. The aim is to secure a translation acceptable at Jaffna in Ceylon and Madras.

Palreographical Society.-The Seventh Part of this valuable work has just been issued, and contains the following "Facsimiles of Ancient MSS., Oriental Series ":

Sanskrit.-A.D. 1198-99. Pañchà-kâra and Guhyâralîvirṛiti.
-_- A.D. 1322 and fourteenth century. Ashtạ-ṣabdikà and Râvana-vâha.

Arabic.-'Al-Mabsât, A.D. 1100-10.
———Tarjunân-al-'Ibar, A.D. 1401?
———Coins, A.D. 1221-1819.
Pherician, Latin, and Gireek.-Trilingual Inscription, cirea в.с. 160-150.

Hebren.-Siloam Inscription, circa A.d. 700.
———Siphrâ Inscriptiou, A.d. 1073.
——Arabic and Samaritan Pentateuch, a.d. 1227.
-—and Aramaic.-Haphtârôth, A.D. 1484.
Coptic.—Life of Onuphrius, ^.d. 979.
Persian.-Kalilah-wa-Dimnah, A.d. 1259.

The Oriental Congress at Berlin.-The Fifth Oriental Congress met at Berlin in Scptember last, under the Presidency of Prof. A. Dillmann, and must be pronounced to have been a complete success, whether we look at the number of distinguished scholars who were present, or at the variety and importance of the subjects discussed. It would appear that the total number of members was, at the time of meeting, 296 -of which number, no less than 189 were present, at least, during some part of the week's proceedings. Most of the leading Oriental Institutions or Societies sent Delegates specially nominated for the purpose; thus, the India Office was represented by Dr. Rost, its Librarian, and Prof. Monicr Williams, Boden Professor of Sanskrit at Oxford; the Govermment of India, by Mr. James Burgess; the Roval Asiatic Society, by its Hon. Scc., R. N. Cust, Colonel Keatinge, V.C., and Prof. A. H. Sayec ; and the Universities of Oxford, Cambridge, and Edinburgh, by Prof. F. Max Müller, Mr. Bensley, and Prof. Egrgeling, respectively. Besides these, three native gentlemen from the East were present, viz. Messrs. Bunyiu Nanjio and Kasawara, Buddhist Priests from Japan, who have been residing for some time at Oxford, and Pandit Shyamaji Krishnavarına, a member of Balliol College, who owed to the liberality of the Home Government for India his being able to take part in the Proceedings.

The business of the Congress was comprised under five leadirg sections :-1. Semitic ; 2. Indo-Germanic (Aryan, etc.); 3. African (Egyptian, etc.) ; 4. East-Asiatic and UralAltaic ; 5. Archæological and Ethnological-under the respective Presidencies of Dr. Schrader, Dr. Weber, Dr. Brugsch (in the place of Prof. Lepsius), Dr. v. d. Gabelentz, and Dr. Bastian ; and the members of these sections met regularly from Monday, Sept. 12, to Saturday, Sept. 17. It would be impossible, here, to give at any length, even the names of the many valuable papers submitted to and discussed in these sections. Indeed, it is scarcely necessary
to do so, as, with true German alaerity, Prof. Dillmann and his colleagues have, already, published (Nor. 21, 1881) the First Part of the Proeeedings of the Congress, comprising a brief sketch of the work done during the early dars of the week in each section. The Second Part, which has arrived, while these last sheets were passing through the press, comprises the papers read before the Semitic and African seetions. Prof. Dillmann promises ret a Third. It is, howerer, worth while to notice one or more special events in this Congress, which may not, perhaps, oeeur at ans future meeting. Thus, inter alia, the Congress receired two addresses in Sanskrit by Râma Dâsa Sena, the well-known Zemindar of Berhampore, and by a Lady Paṇ̦̣it, Ramâ-Bâi of Silchar, Kâchâr, Assam-both of which have been printed, as already noted, with translations into English, in the Journal of this Society. Then, too, the Congress had the pleasure of hearing (certainly for the first time in Europe) a natire Paṇḍit, Mr. Shyàmajî Krrishṇararman, read a paper (not in his native tongue, but in English) "On Sanskrit as a living language in India," his views on this subject being a remarkable confirmation of the opinions Prof. Monier Williams has so repeatedly expressed. Besides, the Congress had, also, the opportunity of hearing four important Essars br English Delegates-one br Prof. F. Max Müller, Ueber die Leistungen der Oxforder Unirersität auf dem Gebiet der Orientalischen Literatur in jüngsten Zeit, namentliehe über das Unternahmen der "Anecdota Oxoniensia"; one by Mr. R. N. Cust, Ueber unscre gegenwärtige Kenntniss der Spraehen Afrika's; and two by Prof. Monier Williams, "On the plaee whieh the Rig Veda oceupies in the Sandhyâ or Daily Morning and Evening Pravers of the Hindûs,"一and "On the application of the Roman Alphabet to the cxpression of Sanskrit and of other Eastern Languages." It ought, also, to be added that two books of great importanec were presented to the Oricntal Congress,-viz.
the first part of the "Corpus Inscriptionum Scmiticarum " (so long hoped for), by M. Schefer, on the part of the French Government, and the "Anecdota Oxonicnsia," by Prof. F. Max Müller, on the part of the University of Oxford. The English and Foreign Bible Society forwarded for inspection Translations of the Bible or of parts of the Bible, in the languages of $\Lambda$ sia, by the hands of Mr. R. N. Cust, a member of the Committec of that Society; but as there was no Muscum attached to this Congress, they were not exhibited.

At the conclusion of the reading of the Report, its adoption was duly proposed and scconded, on which, the President,

Sir T. Emward Colebrooke, Bart., M.P., after alluding to the satisfactory financial position of the Society, as shown by the balance sheet, spoke as follows: "A very pleasing: duty remains for me to perform on this occasion, as I am able to congratulate you on the new sense of life and prosperity which have becn awakened in our old Society. The older mombers of the Society can remember what our position was some years ago, when a very different financial report was laid before us, and when the necessity was impressed upon us of largely increasing the number of our members in order that the special work of the Society might not be cramped by want of sufficient means. Those days, however, of discouragement and gloom have happily gone by, and we are now able to extend our operations, and work out the objects of the Society in the spirit of its founders. I must add, however, that even at its lowest ebb, I never, at any time, despaired of our ultimate success; it seemed to me that we could not look around us and fail to observe the great advances which the study of Oriental science and literature was making all over the world. The motto of this Society (quot rami tot arbores) seemed revived in the branches which the parent Society has thrown forth, while
at the same time the work was taken up with new activity, not merely on the continent of Europe, but in the United States. I have always cherished a belief that, could we only sccure the support of those who have passed their lives in the East, we might again assumc a lead in the great work before us, and these expectations seem now revived; and with the funds at our disposal we trust that our Journal will appear regularly at quarterly intervals, a matter to which your Council attach great importance, as it affords a promise to contributors that their papers will appear in due course. I am happy to add that the materials at our command have, in consequence, largely increased, and there is no want of contributors to swell our publications. The responsibility of the Council in the selection of papers for our Journal have no doubt been thus increased. We do not vouch for the soundness nor accuracy of the riews of contributors, nor do we feel it incumbent on us to print, as a matter of course, every paper that has been read at our meetings. It is our duty to recognize, as far as possible, the sound scholarship and industry which can alone make the contributions valuable. The work of our Society is that of pionecrs, and those who come with tools to work, and with industry to apply them, will always receive a welcome. Each of these contributions may only represent a brick in the edifice, but the whole structure may be shapely and its foundations be strongly placed. It is with much pain that I have to notice the loss by death of so many of our members distinguished by their learning, as Count de Nöcr, etc. Yet it has been said of old, the leaves fall, but the forest flourishes, it is renewed in the spring. Younger and not less able men are coming forward to emulate the zeal, and to follow up the spirit of our predecessors. I need hardly say that it is a particular satisfaction to me to make these few remarks, as I have now, for many years, watched the progress of this Society, and have had
the honour of presiding over it and its meetings on more than one occasion, and it is a great souree of gratification to me that, now I am abont to retire, I leave the Society in such a state. It is a source of further pleasure to me that, on my retirement, the Chair will be filled by a gentleman of such great experience and literary taste, one, too, who has taken a dcep interest in the welfare and prosperity of the Society, and has, himself, also, presided over it before. Sir Bartle Frere will, I hope, do much more for the Society than I have done. For myself, I beg to return my warmest thanks to the Council and all the members for the support and courtcsy shown me during the time I have oceupied the Chair, and to express my hope that the Society will never in the future be found wanting in the most aetive support of every elass of Oriental literature, which it was the chief aim of its founders to encourage to the utmost."

Sir Edward Colebrooke then read the following list of the Couneil and Officers for the ensuing year, as previously recommended by the Council, and this list was accepted in its entirety.

President.-The Rt. Hon. Sir H. Bartle E. Frere, Bart., G.C.B., G.C.S.I., D.C.L., F.R.S.

Director:-Major-General Sir H. C. Rawlinson, K.C.B., F.R.S.

Vicc-Presidents.—Sir E. C. Bayley, K.C.S.I. ; Sir T. E. Colebrooke, Bart., M.P.; Sir Richard Temple, Bart., G.C.S.I. ; Colonel Yule, C.B.

Council.-Sir Barrow Ellis, K.C.S.I.; James Fergusson, Esq., F.R.S. ; Arthur Grote, Esq.; Colonel Malcolm R. Haig ; H. C. Kay, Esq. ; Colonel Keatinge, V.C.; Colonel T. H. Lewin ; J. W. McCrindle, Esq.; General Maelagan; Henry Morris, Esq. ; Sir Lewis Pelly, K.C.B.; Sir W. Robinson, K.C.S.I.; The Lord Arthur Russell, M.P.; The Lord Stanley of Alderley ; J. H. Thornton, Esq., C.S.I., D.C.L.

Treasurer.-Edward Thomas, Esq., F.R.S.

Sceretaries.-W. S. W. Vaux, Esq., M.A., F.R.S. ; H. F. W. Holt, Esq.

Hon. Sceretary.—R. N. Cust, Esq.

Sir Bartle Frere, on rising to return thanks for his election as President of the Society, said, "I cannot for a minute admit a difference between the qualifications of the retiring President and of myself for such a position; on the contrary, the best and wisest thing, I think I can say, is that my chief endeavour will be to follow in the footsteps of my excellent predecessor; as, so long as I do so, I feel that I can rely on the confidence and support of the Council, as well as of the individual members of the Society."

Sir Menry Rawlinson then said:-"Gentlemen, I wish, with your permission, to tender, as your Director, our best thanks to Sir Edward Colebrooke for the manner in which he has managed our affairs, not only for the last single year, but for many preeeding ones. I said here, when speaking on a former occasion, that he bears an honoured name and one regarded with reverence by all Orientalists; and I now heartily congratulate the Socicty on securing so fitting a successor to Sir Edward Colebrooke. We do not talk polities here, but I am sure I may say that, though there may have been differences of opinion as to his political earcer, not only this Society, but the Nation at large are unanimous in admiring the noble, self-denying and genial spirit, which throughout have eharacterized his public carcer. I shall have great satisfaction in again acting with him on our Council. Before sitting down I wish, also, to refer to our indefatigable Secretary, whose excrtions have raised us from a despairing, not to say embarrassing, position. For much of the present prosperous position of the Society we are mainly indebted to his personal labours and unflagging energy."

Sir Bartle Frere, in reply, added, "I am bound to say that Sir Henry Rawlinson has spoken mueh too kindly of me. I have been a most unurorthy member of your Couneil during the past year and I have been quite incapable of discharging my duties in this capacity at all as I could have wished. My future task is, however, I feel eertain, an easy oue, as I eonfidently rely on the support I shall reeeive from the Couneil, the Director and the Seeretary. Even with their aid, I must still regard myself as the ormamental portion of a eapital, the strength of which lies in its base. During the past year the members of the Council have really done all the work there was to do, and to them the thanks of the Society; as well as my orn, are justly due."

Donations to the Library.-The Couneil have to report donations to the Library from-

The Asiatic Society of Bengal.
The Madras Literary Society.
The Bombay Branch of the Roral Asiatic Society.
The Ceylon Branch of the Royal Asiatic Society.
The North China Branch of the Royal Asiatic Society.
The Japan Asiatic Society.
The Straits Settlements Branch of the Royal Asiatic Socicty.
The Roval Society of London.
The Royal Society of Edinburgh.
The Royal Irish Academy.
The Royal Institution.
The Royal Geographical Society of Louden.
The Royal Horticultural Society.
The Royal Cnited Service Institution.
The Royal Societr of Literature.
The Roval Geological Society of Ireland.
The Royal Suciety of Victoria (Australia).
The Trustees of the British Museum.
The Council of the British Association.
The East India Association.
The Society of Intiquaries of London.
The Zoological Societr of London.
The Linnean Society of London.
The Numismatic Society of London.
The Statistical Society of London.
The Geological Society of London.

## The Royal Astronomical Society of London.

The London Institution.
The Anthropological Institute.
The Society of Arts.
The Society of Biblical Archæology.
The Cambridge Philosophical Society.
The Historical Society of Lancashire and Cheshire.
The Liverpool Literary and Scientific Institution.
The Philosophical Society of Manchester.
The Proprietors of the Canadian Journal of Science.
'The Société Asiatique de Paris.
The Société Ethnologique de Paris.
The Société Géographique de Paris.
The Société de la Géographie de Bordeaux.
The Académie des Sciences de Montpellier.
The Royal Academy of Belgium.
The Royal Academy of Turin.
The Royal Academy "dei Lincei" of Rome.
The Royal Academy of Vienna.
The German Oriental Society.
The Royal Academy of Berlin.
The Geographical Society of Berlin.
The Royal Academy of Munich.
The University of Bonn.
Bataviaasch Genootschap.
Konigkl. Institut. d. Nederlandsche-Indie.
Hungarian Academy of Pcsth.
The Imperial Academy of St. Petersburg.
The Academy of Natural Science, Philadelphia.
The American Oriental Socicty.
The American Geographical Society.
The Institute of New Zealand.
The Proprietors of the Athenæum.
————of the Academy.
————of the London and China Telegraph.
———of Allen's Indian Mail.
_———of the Homeward Mail. of the Mission Field. of the Journal of the National Indian Association. of Light for India.
The Society also takes in the following papers:
The Indian Antiquary.
The Revue Critique.
Tho Oriental Publications of the Palæographical Society.
The Athence Orientale.
Annales de L'Extrèmo Orient.

## The Journal of the Society is sent to

The Royal Library at Windsor.
The Secretary of Stato for India.
Tho Royal Society of London.

The Royal Socicty of Edinburgh.
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The Society of Antiquaries of London.
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The Society for Promoting Christian Knowledge.
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The Society for the Propagation of the Gospel.
The Numismatic Society of London.
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The Society of Arts.
The Statistical Socicty of London.
The Historical Society of Lancashire and Cheshire.
The Philosophical Socicty of Manchester.
The Literary and Philosophical Society of Lircrpool.
The London Institution.
The Devon and Exeter Institutc.
The Royal Dubliu Socicty.
The Royal Irish Academy.
Uuiversity Collcge, London.
'The Advocates' Library, Edinburgl.
Trinity College, Dublin.
The British Museum.
The Bodleian Library.
The following may be mentioned as individual donations:
From the Secretary of State for India in Council. Great Trigonometrical
Surrey of India, vol. vi., by Major-Gen. Walker, F.R.S.-Archæological
Survey of India, by Major-General Cunningham, C.I.E., R.E., vols. x. and xi.-Grammar of the Classical Arabic Language. Parts 2 and 3. By M. S. Howell. Allahabad, 1880.-The Voyages of W. Baffin. Edited by C. R. Markham. Hakl. Soc. vol. 73. 1881.-Alvarez' Portuguese Emb. to Abyssinia. Edited by Lord Stanley of Alderley. Hakl. Soc. vol. 74.Selections from the Records. No. 174. Calcutta, 1881.-General Report of the Surver of India, by Major-Gen. Walker, C.B., 1881.-Indian Meteorological Memoirs, by Blanford, vol. i. part v.-Memoirs of Geological Survey. Palæontologia Indica, 4 pts.-Do. 8vo. vol. xv. pts. 2 and 3. -Do. Records, rol. xix. pt. 3, 1881.-Report of the Administration of Baroda, 1879-80.-Do. Do. of Central India Agency, 1879-80.-Do. of the Political Administration of the Rajpootana States. - Administration of North-West Prorinces. Allahabad, 1881.-Administration of Central Provinces. Nagpur, 1881.-Report on the Administration of the Bombay Presidency, 1880-81.—Professional Papers of Indian Engineering. 2nd series, vol. x. Roorkee, 1881.-Administration of the Madras Presidency, 1880-81. - Do. Bengal, 1880-81.-Do. Coorg, 1880-81.-Report on Public Instruction in Bengal, 1881.-Sanskrit MSS., N. W. Provinces, part 6, 1881. - Do. Do. in Oude for 1880.-Chronological Tables of Southern

India, vol. xviii. pts. 1, 2, 3.-Manual of the Geology of India, pt. 3, by V. Ball.-Memoirs of the Geological Survey of India, vol. xriii. pts. 1, 2, 3. -Records of Geological Survey, vol. xv. pt. 1.-Report on the Administration of British Burma.-Maqual of Indian Timbers. Calcutta, 1881.Report of the Administration of the Punjab, 1880-81.
From the Government of Bengal. Report of the Administrations of the Customs Department.-Meteorological Observations recorded at six stations in India, by H. F. Blanford, F.R.S. 1881.-Geological Surrey of India, Palæontologia Indica, vol. xiv.-Geological Survey of India, vol. vi. 1869.

- Government of Madras. Annual Report on the Civil Hospitals and Dispensaries in the Madras Presidency, 1879.-Report on Public Instruction, 1879-80.-Annual Report of Lring-in Hospital, 1881.-Annual Report of Civil Hospitals and Dispensaries.

Government of Bombay. Archæological Survey of India, No. 10.Bombay Magnetical Observations, 1881.
—_ Hindu Tribes and Castes, by Rev. M. A. Sherring, vol. iii. Calcutta, 1881.-Manual of Indian Timbers by J. S. Gamble. Calcutta, 1881.
———Trustees of the British Museum. Catalogue of Oriental Coins, rols. vi. and vii.-Miscellaneous Inscriptions of Assyria, vol. 5.-Catalogue of Ancient MSS. in British Museum. Part 1, Greek.
From Sir Richard Temple, Bart., G.C.S.I., D.C.L. "Men and Erents of my Time in India."

- A. N. Wollaston, Esq. An English-Persian Dictionary, compiled from original sources.
—— II. C. Kay, Esq. A MS. entitled "Kitab al Kanum," by Ibn Sina (Avicenna).
__ Rajendra Lala. "Indo-Aryans. Collected Essays." 2 vols. 1881.
—— F. F. Arbuthnot, Esq. Early Ideas - a group of Hindoo Stories.
——Major Gwynne Hughes. The Iill Tribes of Arrakan. Bombay, 1881.
- J. W. Redhouse, Esq. Turkish Poems, translated by Wasifi Effendi.
_- Professor Guidi. Bulletino della commissione Areheologica di Roma, viii. and ix.
_-Edwin Ransom, Esq. The Phœ⿱ix. Three Parts. May, 1873.
——Bishop Caldwell. History of the District of Tinnevilly. Madras, 1881.
- J. W. McCrindle, Esq. "Ancient India, as described by Ktesias, the Cnidian."-Translation of Lucian's Mcmoir regarding the death of Peregrinus. Calcutta, 1874.
_Rajendra Lala. Notices of Sanskrit MSS., vol. v. pt. 2, No. xv., rol. vi. pt. 1, No. xvi.
- D. M. Gardner, M.A., B.C.L. The Hindu and Roman Law of AdoptionLondon, 1881.
-_G. Da Cunha. Konkani Language and Literature. Bombay, 1881.
——Capt. E. Dumerguc. Machærns, the Prison-house of St. John the Baptist.
—— E. J. W. Gibb, Rsq. Ottoman Poems translated into English Verse. Glasgow, 1882.
-_Lieut.-Gen. Sir Arthur Phayre, C.13., G.C.M.G., and K.C.S.I. International Numismata Orientalia, vol. iii. pt. 2, Coins of Arakan, ctc. London, 1882.
- Iyde Clarke, Esq. The Early History of the Mcditerraucan Populations.

Rev. C. Voyscy. Portrait of H. W. Voyscy, M.D., long known as a Surveyor, cte., in India, between 1810 and 1821.

From tho Church Missionary Society, the following valuable collection of works, published under their auspices. Grammar of Vei, by Dr. Koelle, London, 1854.-Yoruba Langnage, Vocabulary of.-Krapf, Rev. Dr., Vocabulary of the Engutuk Eloikob, 1854. - Elements of the Kasuahili Langruage. Tubingen, 1850.-Dietionary of the Suahili Langnage. London, 1882.-1senberg, C. W., Grammar of the Amharic Language. London, 1842.-Koelle, Dr., Grammar of the Bornn or Kanuri Langnage. London, 1854. - Crowther, Bishop, Grammar and Vocabulary of the Nupe Language. Londou, 1804.Rebman, Rev. J., Grammar of the Kiniassa Language. London, 1877.Neylauler, Rev, G. N., Grammar and Vocabulary of the Ballon Language. London, 1814.-Krapf, Rev. J. L., Vocabulary of the Galla Language. London, 1812.-Reichardt, C. A. L., and Dr. Baikie, Grammar of the Fulde Langnage. London, 1876.-Crowther, Bishop, Grammar and Vocabulary of the Yoruha Langnage, with Notes by O. E. Vival, D.D. London, 1852. - Schün, Rev. James, Voeabulary of the Hanssa Langnage. Loudon, 1813.-Schüu, Rev. Janes, Dictionary of the Haussa Langnage, London, 1876.—Ruban, Rev. J., The Eyo Vocabulary, Part 3. London, 1832.-Schön, Rev. J. F., Oki Ibo, or Grammatical Elements of the Ibo Language. London, 1861.-Schlenker, Rev. C. F., The English Temne Dictionary. London, 1880.-Reichardt, Rer. C. A. L., Vocabulary of the Fulde Language. London, 1878.-Krapf, Rev. J. L., Vocabulary of Six East African Languages. Tubingen, 1850.-Koelle, S. W., Polyglotta Africana, a comparative Vocabulary of nearly 300 words in 100 distinct Afriean Languages. London, fol. 1854.
From General Sir II. Lefroy. Description of the Tour of Lanki, 6 vols.-Description of the Prorince of Cheh-kiang.-Description of the Prefeeture of Changchen, in Chinese. And from Sir John Kirk, K.C.S.I., H.B.M. ConsulGeneral, Zanzibar (by the hands of the Right Hon. Sir Bartle Frere, Bart., F.R.S., President R.A.S.), three MS. vols.: containing the Religions formularies of the Khojas, the modern Indian disciples of Marco Polo's "Old Man of the Monntain" (see Macmillan's Magazine, August and September, 1876).


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[^0]:    ${ }^{1}$ On this, see notes in Slane's Ibn Khallicân, rol. i. pp. xxvii and 355.

[^1]:    ${ }^{1}$ Bibliotheca Orientalis, Assemani, A.D. 1725, vol. iii. p. 213. The assumption that he wrote in Syriac is unfounded. But the treatise was probably translated into that language, as well as transliterated from the original into Syriac writing.
    ${ }^{2}$ Pol. und Apolog. Literatur in Arab. Sprache, Leipzig, 1877, p. 126.
    3 Those who care to prosecute the inquiry further, will find an elaborate article on Al Kindi der Philosoph der Araber, Ein Vorbild seiner Zeit und seiner Volkes, by Dr. G. Flügel, Leipzig, 1857. The paper is founded mainly on the authority of Ibn Abi Oseiba and Ibn Kufti, and is learned and exhaustive. A curious astrological treatise by the same Al Kindy is given by Dr. Otto Loth, p. 261, Morgentändische Forschungen, Leipzig, 1875. The cycles of Arabian history are there ascribed to astronomical conjunctions, and the essay closes with a prophecy of the eventual ascendancy of Islam over all other faiths.

    There is also a short article with an exhaustive list of Ibn Ishâc's works, by Ibn Joljol, the Spanish writer, in the Bibliotheca Escurialensis, Casiri, Matriti, 1760 A.D. vol. i. p. 357.

[^2]:    ${ }^{1}$ p. 81.
     can be no doubt that Bâbek Khurramy
     words imply "two hundred and odd years," or a little over 200. The edict against the eternity of the Coran was issued I think about the year 211 or 212 A.H. ; and our Discussion took place probably a year or two later, say 215 А. н.

[^3]:    ${ }^{1}$ See my Rede Lecture on the Early Caliphate, Smith and Elder, 1881, p. 21.

[^4]:    ${ }^{1}$ The action of Al Hajjâj (who has been sufficiently misrepresented and abused br the Abbasside faction) appears to hare been mainl confined to certain additions in the mar of diacritical marks. See Slane's Ibn Khallikân, vol. i. p. 3.59 and note 14, p. 364. But it was natural, at an Abbasside Court, to rilify that great, but stern, Viceroy of the Omeyjads.

[^5]:    1 This pious salutation at mention of the Prophet, universal among the Mahometans, occurs only here in the Caliph's address, and not in any other part of our Author's writing.

[^6]:    ${ }^{1}$ Ho also objected to tho word $Q_{a} \hat{i} b$ (p. 3) as applicable by a Mahometan to a Christian.

[^7]:    ${ }^{1}$ See Pp. 129, 114, 95, and 121.

[^8]:    ${ }^{1}$ Dr. Steinschneider's letter will be found at page 315 of the Zeitschrift der Morgenländischen Gesellschaft, vol. xxix. The passage referred to in Casiri is as
     Bibliotheca Arab. Hisp. Michaelis Casiri, Matriti, 1760 A.D., vol. i. p. 310.
    ${ }^{2}$ There is the MS. in Paris referred to by de Sacy as No. 257 of the Bibliothèque Orientale. And there is also that mentioned by Steinschneider, No. 112, "Findi, Jacob? Vertheidigung der Christlichen Religion gegen den Islam, in Karschunischen MSS." See his Polemische und apologetische Literatur in Arabischer Sprache, Leipzig, $187 \overline{7}$, p. 131. In this last, the letter of al Hâshimy (re are told) is given in an abridged form.

[^9]:    ${ }^{1}$ An account of the Apology, with a few extracts, has already appeared in the Indian Female Livangelist for April, 1881, but it was necessarily brief.

[^10]:    ${ }^{1}$ The statement in the original is as follors:-
    Utpala mâlâ.-
    Jâtiyol ellam uttamada jâtiya ripra kulange nambal ê
    Mâto, Jinendra dharmname ralani dore dharmmadol endu nambi sa |
    Jjâtiyan uttarottarame mâdi negalchidan int iḷâtma vi |
    Khyâtivan âtan, âtana magaü negaldaṃ Kavitâgunârṇaram ||
    Pampam.

[^11]:    ${ }^{1}$ Sa-pâda-laksha-kshitiyan.
    ${ }^{2}$ Champaka mâha.-
    Kavite negralteyan nirisi Jôlada pâle nị̣̂âdhinâthan û-I Invado! arâti nâyakara patṭave sârisi sada pempu bhû-1 Bhuvanadol âdugum belage mikk abhimâmada mâtu kîrtiyam | Vivarisi sandan cm kaviyo sat kaviyô Kavitâgup̣arnavam ||

[^12]:    ${ }^{1}$ Kanda.-
    Râja sudhâni puṭaraha |
    Sâjada Puligereya tirula Kannadadoḷ nir-I
    Tyâjad esakadolu pudid o-I
    Nd ôjeya balar iniya kavite Pampana karite ||
    ${ }^{2}$ Munnina kabbaman ellam ikki metṭidaru.

[^13]:    ${ }^{1}$ Tho only Yuddha Malla among the Eastern Châlnkyas ruled about S'aka 847 ; they are, therefore, out of the question.
    ${ }^{2}$ The vilest of kings, a brite among men, the husband of his step-mother, who killed an eminent brother at dinner, intent upon attempts at swallowing the skies, ete.-Dr. Bhau Dîji's version, Bo. J. x. p. 46.
    ${ }^{3}$ The dominion of the Western Chalnkyas is described in inceriptions as a $7 \frac{1}{2}$ lakh country. The same designation is applied to the Hoysala kingdom of Mysore. Gaigavadi, the origiual territory of the Gangas, was a 96,000 lakh country.

[^14]:    ${ }^{1}$ This coin is no longer unique, as I possess three very fair specimens of it, all dated 716 A.H. Two of these are sitver and eopper mixed, the third is of copper.

[^15]:    1 In describing the Great Tope at Peshawer, Hionen Thang states: "Sur la face méridionale de l'esealier de pierre du Grand Stoupa, il y une image peinte du Bouddha, qui est haute do seize pieds." - Vol. i. p. 110.
    ${ }^{2}$ Read 12th Jan. 1880, in wheh a copy of the restoration is given.
    ${ }^{3}$ Given in Fergusson's Indian and Liastern Architecture, p. 80.

[^16]:    ${ }^{1}$ Hiouen Thsang, transl. by MI. Julien, rol. i. p. 108.

[^17]:    ${ }^{1}$ p. 693.
    ${ }^{2}$ p. 302.

[^18]:    ${ }^{1}$ Tie et Voyages de Hiouen Thsang, p. 318.

[^19]:    ${ }^{1}$ Ghațī-yantra may also mean a clock.

[^20]:    
    ${ }^{2}$ Wan or luen，for the word occurs in both forms，may be more simply the representative of Yar in Yarkaud．

[^21]:    ${ }^{1}$ P＇u trou tsze 浦 陶 子＇the grape＇is apparently connected with the Greek
     grapes that they grow in bunches two cubits in size，$\tau \delta \nu \delta \in \beta 6 \tau \rho u \nu \delta i \pi \eta \kappa u \nu$.
    ${ }^{2}$ I have left shen here untranslated，as in the sequel it will be found to bear a technical meaning．
    ${ }^{3}$ 扞 Han or Kan is probably in error for 扜 $y u$ ；Kumîl was probably the pronunciation．－See Chinese Recorder，vol．vii．p． 342.
    ${ }_{5}^{4}$ Lob is apparently a corruption of Lavâpa，i．e．＇salt water．＇
    ${ }^{5}$ See Chinese Recorder，vol．vii．p． 342.
    ${ }^{6}$ In the Shuiking called 且 末 $C h$＇e－mut，i．e．Aksh－mar－dana．－Id。
    ${ }^{\gamma}$ The Wu－sun are apparently to be identified with the Asii or Asiani，who according to Strabo occupied the upper waters of the Jaxartes，and who are classed as nomades with the Tochâri and Sacarauli（？Sara Kauli，i．e．Sarikoolies）．This would answer perfectly with Sze－ma＇s description，both as to locality and customs．

[^22]:    ${ }^{1}$ K＇angku，apparently Karaknl ；the ultra－sara $k$＇is，however，more regularly the equivalent of $g$ or $g h$ ．The proposed identifieation of these two names，ap－ parently Turkish，Sarik－kul and Kara－kul，seems to raise a difficulty．They stand alone on the Pamîr，in the second century 13．c．，as Turkish proper names．Shaw （High Tartary，ete．，p．27）speaks of the Sarikolies as of Aryan type，with light complexions；the inhabitants of K＇ang－ku are deseribed below in similar terms． There is some difficulty in acconnting for so early a use of tho Turkish name of Karakul on the l＇amîr as the time of Chang－kien＇s mission，circa b．c．130．On the whole I am rather disposed to see in it the Rangha of the 1st Fargard of the Vendidad，which Sir H．Rawlinson（Notes to Monograph on the Oxus，Journ．of Royal Geogr．Soc．vol．xlii．pp． 494,501 ）places in the exact position I have marked out for K＇ang－ku．Etymologically $\mathrm{K}^{\prime}$＇ang（in Cantonese Hong）＇repose，＇ ＇joy，＇and Zend Kañh＇to sound，＇＇praise，＇seem to be conneeted with Sansk． Mas，1st gustare，amare， 2 nd sonare，clamare；so that the old pronunciation of the Chinese word probably approaehed nearer than the modern to the Zend Rañ， in which case the Chinese name K＇ang－ku would represent sutfiecontly well the Rañha of the Vendidad．The verse in question has been translated so very differently by Spiegel and Haug，that it is difficult amid the confliet of authority to offer any satisfactory explieation ；Raña＇above the waters＇may refer to its position surrounding the lakes of the lamir ；or，taken in connection with the next sentence，to the legend of the upheaval of Panir，more explieitly given in the 2nd Fargard，aceompanied by the creation of snow and earthquakes，as the land rose from the primeval ocean．The short deseription，＂governed without kings，＂will agree with tho seni－nomadie eharaeter of its inhabitants similar to the Yueh－ti．That they were not＇Jurks we may gather from the text，which always conneets them with the Aryan inhabitants of Wan，Larkand，or Im－t＇sai， Samarkand．
    ${ }^{2}$ Im－t＇sai－li－kan．It seems not improbable that the first two charaeters are inverted．T sai－im－li－kan 落奄黎軒，i．e．Sal－im－ar－kand，for Sulmar－ kandi，approaches suffieiently near to the modern Samarkand，Marakanda of I＇tolemy．
    ${ }^{3}$ Major IIerbert Wood，on tho evidence of Greek and Persian authors，as well as from his own observations（Shores of Lake Aral），camo to tho conclusion that the Sir－daria originally ended in a marsh to the south－east of the present Aral．The northern sea mentioned by Sre－ma is，so far I am aware，the first alhusion in Chinese literaturo to Lake Aral．

    4 The Ching－$i$ 正 義 says of the Yneh－ti or Ephthalite that they＂lived some 7000 li north of ludia．They had pink and white complexions，und were accustomed to shoot from horseback．Tho most celebrated rubies（瑀 珍）

[^23]:    Turkestan，and of whieh Lakes Lob and Gash are the deeaying representatives． It is associated with the Kwen－lnn－shan，i．e．monntains of Gandhâra，and the Si－wang－mu 再 腈．The latter name seems to be a corrnption of Sumern， the eharaeter 王 being nsed for 亡，in Cantonese mong，and connected with the root mar or mor＇to die．＇W．F＇．Mayers，in his Chinese Readers＇Mannal， s．v．gives a sketch of the wonderful legends which have grown up ronnd these two names．They aro evidently comeeted with the IFindoo stories of the Gandharvas．Finding，as their knowledge of Eastern Tnrkestan extended，that they eould not apply the legends to Lake Lob in its then condition，and bearing of the similar situation of the IIanum，the stories were readily transferred to tho new site．
    ${ }^{1}$ Lam－shi－ch＇eng 監 ijf 峸，tho Da－rapsa $\Delta \dot{\rho} \rho a \psi a$ of Strabo．The phonetic， as seen in 覧 lam，i．$\rho$ ．$\lambda a \mu \beta d \nu \omega$ ，seems to point to an original lamb．Darampsa was probably the original form of the name．

[^24]:    ${ }^{1}$ Kien－wei，now Kiating－fu．
    ${ }^{2}$ Sui，now Likiang－fu in Tunnan．
    ${ }^{3}$ T＂in－yût 槇越，apparently the ancient Sthâneswara，now Oude and Rohilkund（see C＇unningham＇s Ancient Geog．of India，vol．i．p．328），but here applied to North－eastern India generally．

[^25]:    ${ }^{1}$ 䄮迥 山 K＇i－lien is said by a Chinese commentator to have been the Hiung－nû title for heaven．The llow－han－shu gives Chang li，i．e．Tangri，as the equivalent（vide A．Wylie，Journ．of the Authropological list．vol．ii．So．3）．
    ${ }_{2}$ These positions were in the prefectures of lamelow and $\mathrm{Si}_{\mathrm{i}}$ ming，in the present Kan－sul．For a detailed account of these operations cide Shiki，ch．110； also A．Wylie，l．c．
    ${ }^{3}$ A．W ylie，l．c．

[^26]:    ${ }^{1}$ This tale of suckling by a wolf，familiar in the cases of Romulus and Cyrus， is matched br at least two more tales from Chinese sources．In the Tso－chuen （rII．r．）is given the story of Tsze－wan of T＇sû suckled by a tiger（Ch．Class． rol．r．p．297）．Klaproth（Tablear de l＇Asie）relates from Chinese sources the similar story of Assena，founder of the modern Turks（p．114）．The addition of the raven（ H 國 $w u$ ）alone is a play on the name of the tribe（Wu－sun）．With regard to the attack on the Wu－sun，Mr．Wylie＇s translation（op．cit．）may be quoted．In the jear 176 b．c．the Shen－yu riote to the Emperor：＂Now，in consequence of a slight breach of the treaty by some petty officials，you pursued the Right Sage Prince till he was driven westward into the territories of the Tueh－ti．There，howerer，Heaven favoured our cause．Our officers and troops were loyal and true；our horses were strong and spirited；and by slaughter，de－ capitation，subjugation，and pacification，our army effected the complete reduction of the Yueh－ti ；while Low－lan，Wu－sun，Hu－ki，and the adjaceut kingdoms，to the number of twentr－six in all，without exception submitted to the Hiung－nû； and thus all the bowmen nations are united in one family．＂

[^27]:    ${ }^{1}$ The whole of this passage is written in a peculiar style．The text is pro－ bably corrupt．

[^28]:    ${ }^{1}$ Near the present Ching－tu－foo in Sze－chuen．
    ${ }^{2}$ See abore，p． 83.
    ${ }^{3}$ Tsze－lung says，in his account of the intercourse of the Hans with the Western states：＂The southern route led through Sze－chuen 蜀，the northern by way of Kin－ch＇eng 金 城 and Tsiu－ts＇iuen 洒泉．The southern route not being opened，they made use of the northern，which they were enabled to do owing to the retreat of the Hiung－nû．The southern route was rougher，longer， and altogether more difficult to travel than the other．＂

[^29]:    1 Apparently Mithradates II., who ascended the throne circa b.c. 124.
    2 Such gifts were evidently customary in these countries. When Pandion (King of the Indo-Scyths?), who a little later reigned orer the north-west of India, sent an embassy to Augustus at Samos, the mission brought as presents a
     without arms, who shot from a bow with his feet), as well as tigers, snakes, and a large river tortoise. (See Strabo, lib. xv.) The bird was apparently one of

[^30]:    the Struthionider ；the descriptions point to the estrieh，but tho ostrich was well known to the Romans，who onght certainly to have knowu better than to eall it a partridge．There is no physical difficulty involved iu the supposition that tho range of the ostrich formerly extended aeross the Persian Gulf to the deserts of Karmania and Sarangia．Its eastern limit wonld thus coincide with that of the lien．It is possible，of coursc，that a seeond species of Struthio，now extinct， inhabited these districts at the time in question，and that it was sufficiently distinet to justify the deseription of Strabo．
    ${ }^{1}$ IIwan－ts＇ım，Khnrism，Zcud Qıairizem，Gr．Xwpáбuıa．Ta－yik，possibly the $\Delta \epsilon \quad \rho \beta$ tкes of Strube，the $\Delta р о \pi t к о$ of Heredetus．

[^31]:    ${ }^{1}$ 晏 然 An－yan．As in the similar case of Parthia，we must pronounce the initial syilable $A r$－the Aria or Arian－a of Strabo and Herodotus，the Haraêva of the Aresta．It lay south－west of Bactria，and its name survives in the Herat of to－day．Strabo says of it that it is＂partly composed of valleys inclosed by mountains，and partly of inhabited plains．The plains are watered by the rivers Arins（Heri Rnd）and by the Marqus（Murg－ab）．，．Its length is about 000 stadia，and the breadth of the plain $300^{\circ}$ stadia＂（xI．x．）．Kiao－t＇sze is robably the Arachôsia of Strabo，situated on the banks of the Arachotus，the Haraqaiti of the Aresta，the 䖾 羅 跂 禘 $I-l o-k^{\prime} i-t i$ of the Shui－king．
     $p^{\prime} u-t a 0$ ，is not native．As the grape itself was introduced from the neighbour－ hood of Yarkand，we hare to look to that locality for the origin of the name． Strabo speaks in many places of the exuberant growth of the grape in Central Asia．The wines of Asia，he said，might be kept for three generations in un－
     of Margiana，he speaks of bunches of grapes two cubits in size．It seems not unlikely that in the Chinese word，therefore，which regularly represents the Greek $\beta$ ótpus（see ante，p．79），we have a vestige of the Greek occupation of Bactria．It is possible too that the 萛 宿 muk－suk of the Chinese may have
    

[^32]:    ${ }^{1}$ A curious coineidence with Strabo＇s description of Bactria（x．xi．）：mo八入h $\delta ’ \in \sigma \tau l$ кal $\pi$ á $\mu \phi о \rho o s ~ \pi \lambda \grave{\nu} \nu$ èaiov－＂It is an extensive country，producing every－ thing exeept oil．＂
    ${ }_{2}$ Urlh－shi－ch＇eng，the capital of Ta－wan，has not been identified；it was pro－ bably not far from the site of the modern Yarkand．On p．97，infin，we aro told that the＂rogal city of Wan had no wells within the walls，and was alto－ gether dependent on streams without the city for its supply of water．＂This

[^33]:    perfectly tallies with the description of Yarkand giren by Hayward（Journ．of Royal Geogr．Soc．rol．xl．p．4）：＂Both the city and fort are supplied with water from several tanks，into which it is conveyed by canals cut from the river．These are frozen in the winter，and the supply is then stopped，but the tanks contain sufficient water for the consumption of the inhabitants until the regular supply is renewed in the spring．＂

[^34]:    ${ }^{1}$ Yak－cheng 有旸 城．The position is doultful．It lay north of the road to Urh－shi．The first syllable probably represents the Turkish $\Delta k$ ．

[^35]:    ${ }^{1}$ b.c. 103. The Marquess of Tsok-yi had left Suh-fang in the spring of the rear with 20,000 cavalry. The left commandant-general of the Turks had offered to transter his allegiance to China, and the Marquess retired to join his forces. The plot had been discovered before his arrival, and the commandant been put to death. The Turks fell on the Chinese, but were defeated. The latter however retired, but before their arrival at the frontier were set on by the Turks, their leader killed, and his army cut to pieces.- Wylie, in Journ. of Anthropological Inst. l.c.

[^36]:    1 We are as yet too ignorant of the geography of Eastern Turkestan to be able to fix the position of Lûn－t＇ow．It lay west of Lake Lob，and the indication that thenee to Ta－wan the road was level would seem to place it at the western extremity of the mourtains known to lie south－west of the lake．Lan－t＇ow俞 敳！possibly represents Dârsila，i．c．Cleft－rock；of．K＇wen－lùn for Gandhâa．

[^37]:    ${ }^{1}$ Shen horses 善 馬．Is it possible that these are connected with the cele－ brated Sesean horses of Strabo and the other Greek writers？Strabo（xı．xiii．）
    

[^38]:    （Sce also IIcrod．vii．40．）Possibly，like the grapes，the race was introduced through Bactria from west of the Pamîr．
    ${ }^{1}$ 詼 熐 Mui－t＇sai，appareutly Malsalya，i．e．Belophoros，saggitarius；so Mu－kwa is possibly Mahavira．
    ${ }^{2}$ Apparently representing somo such forms as Hari－urva，terra gilue，and Ugra－jara，mate ctura．

[^39]:    ${ }^{1}$ See de Rougé's Grammar.

[^40]:    ${ }^{1}$ In this paper I limit myself to the Semitic group, and refer only oceasionally to the Egyptian to make the explanatious elearer.
    ${ }^{2}$ See the table A.
    ${ }^{3}$ The maseuline form in $u$ is the only one retained in Coptie, though in Egyptian we have the two forms fef t and "mm sen, but in Egyptian they had already lost their value, aud were used indifferently for both genders.

[^41]:    ${ }^{1}$ This is the opinion of the learned scholar Prof. Wright, Arabic Grammar, rol. i. p. 61, though he gives no opinion as to the etymology of the suffixes of the Aorist-Past.

[^42]:    1 The pronoun of the scond persou antu, fem. anti, which appears in all the dialects, must have been primitively $a n / a-\mathrm{k}$ for the mase., at least as the comparison of the Somitic pronoms with the Coptic drawn by Gesenins would seem to show. This pronom lost at an early time the $k$, which has been the case with tho pronom of the first person in Aramean, Arabic and Ethiopian. In layptiau there are forms exactly similar to the above-mentioned Assyriau formation :
     art ruker." It will be seen further on that the partiele an (expressed in anaku sometimes by a single welge) is the rerb "to be."

[^43]:    1 W.A.I. rol. ir. plate 10.
    2 These forms recall to mind the Energetic perfect of the Arabic.
    ${ }^{3}$ This pretix $n$ appears in the Arabic dialect of Algeria for the first person sing.

[^44]:    ${ }^{1}$ Some of the forms are considered by grammarians to be derived from an $A$ phel.

[^45]:    ${ }^{1}$ The Egyptian particle $a_{n}$ is used exactly in the same way as a support to the pronouns and nouns, and is undoubtedly a primitive substantive verb, as has been shown by M. Maspero (Journal Asiatique, Aout-Sept. 1871) and M. Ancessi Revue Philologique, "le theme N dans les langues de Sem et de Cham"). See Zeitschrift, 1879, p. 49. Dr. Birch had many years ago suggested it.

[^46]:    1 The primitive meaning of the prefix appears elearly in a kiud of emphatic pronoun formed by adding to it the pronominal possessive suflixes: "गָָ̦i alan", "our being," as in English " ourselves," i.c. "we,"

[^47]:    1 The present note was read at a meeting of the Royal Asiatic Societr, Dec. 19, 1S81, br Col. Henry Yule, C.B., to mhom the MS. had been offered from Peking by Mr. Colborne Baber, who had received it from a Lolo chief, in fulfilment of a promise made four years ago.
    ? The only documents we had previously on the J.olos, besides the short Chinese notices, were the notes from Father Crabouillet, of the Missions Etrangères of Paris (missionary for ten years in Se-chuen) in 1873. These notes have been published in the numbers of February, 1573, of a weekly paper, Les Missions Catholiques, published at Lyons. The Lolos cover an area of 50 leagues in length, and 30 to 40 in width, in the south-mestern part of the Se-chuen province of China. A branch of the same people exists in Indo-China.

[^48]:    1 A number of writings of that family may le enumerated in their geographical order，which in several eases is not due to their connection，derivation，and age， as follows：（a）India－Harapa scal，Indo－l’ali，Vatteluttu；（b）Indo－China－ Lolo，Laos；（c）Sumatra－Old 13attak，Rejang，Lampmig ；（d）Celebes－Old Bugis，Macassar ；（e）Philippines－Tagal（pre－Arabic Malay）；and（ $f$ ）Northern －Corean，Ilifmmi Japanese．The whole question is treated，with the necessary illnstrations of characters，in my paper On the Jinsfern Alphatiet and the Indo－ Chinese Urigin of the Indian Writing，which will soon appear in the Journal of the R．A．S．

[^49]:    ${ }^{1}$ Nouns in ur can hare an active and a passive meaning．jana，comes from the rerb shavä tóm－mek＇＇to stuff，to fill rery full．＇Compare élvä tóm－ur the thick fur cap of the Kirghis，ت－toon to aq the wide trousers of the Ulemas， －゙V・ご tom－ā－laq＇thick，stump5，plump，＇ت̈Lilog＇tóm－an－maq＇to become wealthr，＇تئ tim＇an arch，a rault．＇

[^50]:    ${ }^{1}$ Comp. my article in Zeitsch. der Deutsch. morgen. Gesell. vol, xxiv. pp. 125-144.

[^51]:    ${ }^{1}$ Lit. 'war-chief.' According to Chincse sourccs his proper name was Timudgin, i.e. (imurgi, or 'the man of iron' ; comp. "the iron duke."

[^52]:    ${ }^{1}$ In the great battle delivered by Kukhau to Sultan Sanjar of Persia, as early as 1141, Ibn-el-Athir already attirms that tho army consisted of Turks, Chinest, Khataians, and many others.

[^53]:    begin a word with st, say simply Stambul, for the more completely Turkish Istambul; just as also the Tartars, when adopting from the Chinese the corruption of their name Tatal, retained it in the form of Tatar, because the $r$ was not unpronounceable for them, as it was for the Chinese. I may also add, that the zealous Moslims, instead of calling their capital Istambul or Istambol, take pride in giving it the ideal name of Islambol, i.e. Islam 'fulness.'

[^54]:    ${ }^{1}$ I may here obscrve in passing that the name Turan, if, as its form plainly suggests, it is of Tartar-Turkish origin, can only be derived from this rerb and is its regular participle present, signifying 'standing up, rising, remaining erect.' It was therefore a fitting designation of the momntainous regions and highlands of Central Asia. In English also 'rise' is used for elevation, height, mountain. In contradistinction to this, and on the snpposition of its 'Tartar origin, Iran would siguify ' the plain, level gromnd, flat expanse, what is spread eveuly, liko the surface of a flowing water,' being likewise the regular present participle ${ }^{\prime \prime}$ verb, 'to flow,' but now only used as a snbstantive, 'river' (fluvius, flumen). This scens to me to have been the derivation and origiual signification of both these names-provided thcy come from a Tartar souree-and at the time of their formation they, no doubt, also inlly corresponded to the physieal eharueter of the respective territories to which they were applied. It minst be observed that the opinion I have just expressed concerning tho words Turan and Iran is wholly based on the supposition of their being of Tartar origin. Such an origin as regards Tu'an is obvious and beyond any reasonablo doubt; but thongh Iran

[^55]:    ${ }^{1}$ The Arabic plural Rrya, like that of Clemr 'the learned,' and many others, is by the Turks also constantly used as a singular.

[^56]:    ${ }^{1}$ Collection of Central African Languages, Compiled and Aualysed bs Heury Barth, C.B., D.C.L. Gotha: Justus Perthes, 1862.

[^57]:    1 This difference in the use of $n a, k a, l a$, instead of $n e, k e, l s{ }^{2} e$ is a fruitful source of confusion in fixing the Tenses, hecause in writing ka for ke you form a perfect instead of a present tense. You must always remember on reading your manuscript from whose lips you copied; had 1 remembered that a ba-Gobir spoke the sentence: da biki-suka zikka (Hausa Granı. p. 139), 1 should have written su-ke, and the sentence would be correct.

[^58]:    ${ }^{1}$ P'âtimokkha (Dickson), p. 6.

[^59]:    ${ }^{1}$ Schlagintweit, p. 129.
    ${ }^{2}$ Pâtimokkha, p. 5.
    ${ }^{3}$ Catena, p. 404.

[^60]:    ${ }_{1}$ Mahab. Vana Parva, v. 4059.
    ${ }^{2}$ Ibid. 4083.
    ${ }^{3}$ Ibid. 4074.

    - Vana l'arva, S056.
    ${ }^{5}$ Ibid. 8079.
    6 Ibid. v. S234.
    ${ }^{7}$ Ibid. vv. 8262, et seq.
    ${ }^{8}$ F. 4035.

[^61]:    ${ }^{1}$ Mahabh. Adi Parra, r. 3717.
    ${ }^{2}$ Ibid. Sabha Parra, r. 69.
    ${ }^{3}$ Ibid r. 74.

[^62]:    ${ }^{1}$ R.V. x. 18, cited from Whitncy's Oriental and Linguistic Studies, 1st Series, p. 65.
    2 Adi Parva, v. 5913.
    ${ }^{3}$ Mbh. Sabha Parva, v. 816, 817.
    4 Vana l'arva, 8307.
    ${ }^{6}$ Ibid. 8375.

[^63]:    1 Tana Parva, 8523.
    ${ }^{2}$ P. 453.
    ${ }^{3}$ P. 46.

[^64]:    ${ }^{1}$ Jissays, p. 59.

[^65]:    ${ }^{1}$ From an anonymous Arabic poem.-Kosegarten, p. 153.

[^66]:    ${ }^{1}$ Kitab el Khitat, Bulak ed., vol. i. pp. 348, 361.
    ${ }^{2}$ See lbn el Athir, vol. viii. pp. 452 and 469.

[^67]:    ${ }^{1}$ The short notices of the foundation of Al Kähirah given by Ibn Khallikan, in his biographies of Jauhar and of Al Mu'izz, are quite consistent with the statemeuts to be found in Al Makrizi, though not clear enough to dispel the precouceived idea, with which modern writers generally approach the subject. Thus, M. de Slane in rendering the statement that Jauhar marked out the circumfereuce (or plan) of Al Kährah, translates of the nexe city. Further on he writes that Jauhar was displeased with certaiu irregularities in the outline of the future cily, where in the original the pronoun is used, referring to the word Al Kas', immediately preceding it, which M. de Slane himself has rendered the citadel.

    The author of the Nujün ez Zihirah, Ibn Taghri Bardi, is somewhat obscure on the subject, but one among other passages deserves to be noticed in which, using the word Al Kִaṣr, the palace, he adds, $y_{j}^{z}$ all "that is to say, Al Kähirah"' (ed. Juynboll, vol. ii. p. 423). Al Makrizi, I may further remark, designates Al Kähirah in certain passages (vol ii. p. 107) by the term Al Ķaミabah.

[^68]:    ${ }^{1}$ Flsewhere (vol. i. p. 461) we learn from Al Makrizi that the ambassador was introduced into the audienee hall, with an othicial of the court on either side of him, each grasping one of his hands. The custom was doubtless an imitation of the ceremonial observed on similar oceasions at the leyzantine Court, and the practice, as is well known, has been contimned by the Turkish Sultans almost down to the present day, thongh erroneonsly stated to have been first introdneed at Constantinuple, in consequenee of an attempt made apou the life of one of the Sultans by a Servian prisoner.

[^69]:    ${ }^{1}$ Vol. i. p. 348.
    ${ }^{2}$ See Ibn al Athir, vol. viii. p. 327.

[^70]:    ${ }^{1}$ Sce Ibn Khallikan, De Slane's translation, vol. iii. p. 377.
    ${ }^{2}$ Two gates at the Al Mansurieh bore respectively, as at Al Kahirah, the names of Bub Zaviluh and Bab al Fuluh.
    ${ }^{3}$ Mr. Lanc, in one of the notes to his translation of the Arabian Niyhts, remarks that he has not fonnd the name of Misr applied to Cairo in any Mrabic work earlier than the Turkish Conquest. It strikes me that the circimstance may be sufficiently accounted for by the punctilions accuracy of style which Arab writers always affect in their written, as distinguished from their spoken lamguge. Nevertheless, Ibn Batutah, when deseribing the city of 'airn on the occasion of his first visit to Eggyt in A.D. 1326, gives it repeatedly the mame of Misr, thongh, singularly enough, in the much briefer account of his last visit, he invariably styles it Al Kahirah.

    Quatremère, in his Memoires géographiques et historiques sur l'Esprpte (vol. i. p. 48), whilst referring to the fact that the Copts transterred from il lustat to Cairo the name of Bablun or Bahytom, adds that they gave Cairo tho further designation of Ti Keschromi, "qui siguifie mot à mot qui brise hes hommes"-

[^71]:    "nom assez étrange," he remarks, and indeed a name of ominous sound. "Je croix y reconnaitre," he continues, "la tradnction un peu altérée du mot Arabe Al Kahiral."
    ${ }^{1}$ Vol. ii. p. 416.
    ${ }^{2}$ An Egrptian derivation has been attributed to the name Al Kāhirah, but I do not know whether its claims to attention rest upon better grounds than that of its ingenuity. It has been contended that the country in the neighbourhood of Heliopolis was from early times designated Kahi-ra, the District of the sun. The denomination would be similar to that of Kahi-nub, the District of Gold, generally accepted as the origin of the name Canopus.

    The name Al Kahirah might perhaps with equal plausibility be connected with certaiu rerses, addressed to $\mathrm{Ml} \mathrm{Mn}^{\circ} \mathrm{izz}$ by the poet Mnhammad ibn IIani, on the eve of the Khaliteh's departure for Egrpt. Ibn Al Athir (vol. viii. p. 457) remarks that the languige used by the poet, in his panegyrics, was often carried to the highest point of extravagance, and that it was condernned by the 'Ulema as marked with rank infidelity. He quotes, among other instances, the following lines, in which the poet addresses the Khalifeh as Al Wahad and Al Kahhar, both of them epithets applied only to the Deity :-

[^72]:    ${ }^{1}$ Vol. x. p. 97.
    ${ }^{2}$ Vol. ix. p. 282.

[^73]:    ${ }^{1}$ The Church of Edessa was regarded by Arab writers as one of the wonders of the world (see de Sacy's 'Abd al Latif, p. 442).
    ${ }^{2}$ One feels inclined to suspect that a certain degree of Chaurinism is at least partly responsible for the laudatory terms in which Al Makrizi so generally indulges in his work on Egypt and Cairo. Passages that exhibit some discrimination are, however, not wanting. Thus, he quotes, with but faint protest, certain descriptions of his native city by foreign writers, couched in no flattering terms. One, remarks upon the hard lot of the citizens, condemned to the use of unwholesome water from contaminated wells, and from canals, the receptacles of drainage from the houses on their banks. The atmosphere itself, says Ibn Sa'id, is unhealthy, especially during the prevalence of the hot mirisy winds, and diseases of the eves rery prevalent. In a subsequent passage, it may be that feelings of professional ill-humour have the upper hand. Life at Cairo, he proceeds, is hard and poor, especially for the learned. The professors at the colleges are paid miserable salaries. The happiest lot, he continues, somewhat bitterly, is that of the Jews and Christians, occupied in the practice of medicine and in tbe collection of taxes. But it is an excellent place for paupers, who live untroubled by the fear of taxes and tithes, of summonses and torments. The pauper possesses no slave whose death may be a pretext for charging his master with having succeeded to an inheritance, followed in all probability by his being imprisoned, tortured, and plundered. With bread cheap and abundant, he leads a life of ease, free to enjoy the songs and public amusements of the town. Nor is there any one to interfere with him, even when his fancy leads him to strip himself of his clothipg before dancing in the public streets, to stupefy himself with lashish, or to associate openly with romen of abandoned character. He has not even to fear impressment for service in the state galleys. That fate is reserved to the Mogharba, noted for their qualities of seamanship. A Moor, on arriving in

[^74]:    ${ }^{1}$ A native friend suggested the following reading of the words at the commencement of the inscription, but I feel more than doubtful of it: dلl ,
    

[^75]:    ${ }^{1}$ I have ventured to depart from the rendering of the word al Kayyinm, adopted by Sale and other Eughish translators, namely, the self-subsisting. The Kamns explains the word as meaning 'He who has no equal.' Both Az Zamakhshari and Al Baydawi say that $A l$ Ķay!um is he who is continually engaged in regnlating the order of the Creation and in its preservation, a sense I have endeavoured to render by the word watchful.

[^76]:    ${ }^{1}$ Vol. i. p. 382.

[^77]:    ${ }^{1}$ Yol. i p. 110.

[^78]:    ${ }^{1}$ Quatremère, in his Mistoire des Sultans Mamlouks (rol. ii. pt. i. p. 14), has collected together a number of passares, in which the word rank, or its plural runuk, is employed by Al Makrizi and other Arab writers to designate the badges or armorial bearings and banners used by Muhammadan princes of the Middle Ages.

[^79]:    ${ }^{1}$ Docteur châfécîte mort en l'année 710 de l'hég.
    ? Yoy. El Djabarty, p. 4, note 4, du tirage à part.
    ${ }^{3}$ Vor. sur ce docteur hanafîte, qui mourut en l'année 710 de l'hég., El Djabarty, p. 4, note 2.

    + Ce commentaire de la Hédâyah d'El Marghînâny a pour titre El Ghâyah ou plutôt Ghâyat el bayân wa núdérat el aqrân.
    ${ }^{5}$ Voy. El Djabarty, p. 4, uote 5.
    ${ }^{6}$ Le Hâoy dans lequel serait renfermé ce traité, d'après ce que nous apprend Hadji Khalîfah, ne se troure pas à la B. nationale.

    78 Voy. El Djabarty, p. 4, note 6, et p. 5, note 2. Notre auteur a eu éridemment entre les mains le Traite des balances.

[^80]:    ${ }^{1}$ Ce qui donne pour le poids de ce grain 0gr., 0030898.
    ${ }^{2}$ Le poids de cette graino est done do 0 gr ., $02145699_{9}^{\mathrm{t}}$.
    ${ }^{3}$ Soit pour le grain d'orge 0 gr., $061305{ }_{9}^{8}$, cf. mes Matériaux pour servir à l'histoire de la numismatique et de la métrologie musulmanes dans lo Journal Asiatiqno.
    ${ }^{4}$ Le graiu de caronbe pèse donc 0 gr., $1839 \frac{1}{3}$. Voy. Kharroîbah daus mes Matériaux, etc.

[^81]:    ${ }^{1}$ On roit tout de suite quelle différence dans le taux de l'impôt peut produire cette divergence d'opinions entre Ech-Châfé'y et Abou Hanîfah ou Mâlek. Dans les tableaux qu'il nous donnera ci-après, notre auteur, qui est Châfé 'îte, fait figurer le nombre de chaque espèce de pièces d'or ou d'argent auquel s'élève le nésâb, défalcation faite de l'alliage, c'est-à-dire en ne tenant compte que du métal pur, or ou argent, que ces pièces contiennent.
    
    ${ }^{3}$ vij;. L'expression technique waqas que je rends par interruption signifie qu'une fois le nésáb atteint, il faut que la matière imposable s'élève à un certain

[^82]:    1 d．
     ＂dans les tableaux．＂Voyez les tableaux ci－après．
    ＂，Litt．＂les dessins des fractions．＂
    4ll s＇agit du Qîrât mesry，servant iei d＇unité．
    ${ }^{5}$ Ces signes，qui représentent des fractions de l＇unité depuis ${ }_{1}^{1}+1$ ，sont employé， en Egypte，surtout par les Coptes．La divisions en 24 parties，ou 24 mes ou qîrâts，y est usitée pour toute chose ；ainsi une terre，une maisou，une suceession， un feddian de terrain，ete．，se diviseut en 24 qirâts ou $24^{\text {mes }}$ de l＇unité．Il en était de même à Chio au XIVe sièele（voy．Hist．patrice monum．，liber jurium， t．ii．，eol． 732 et suiv．），et probablement dans tout l＇Empire Byzantin．

[^83]:    ${ }^{1}$ C'est-à-dire le quarantième, ce qui est le montant de l'impôt auquel le nésúb est soumis.
    ${ }^{2}$ S'il s'agit de monnaies d'or.
    ${ }^{s}$ Quand le calcul s'applique à des pièces d'argent.

[^84]:    ${ }^{1}$ Le qîrât, comme on l'a vu, est égal à 3 habbah et la habbah, à 2 dâneqs; d'ou 1 qîrât $=6 \mathrm{~d}$.
    ${ }^{2}$ Le Qîrât mesry $=24$ qîrâts $=72$ habbah $=144$ dâneqs. Les 18 Qîrâts mesrys égalent done $144 \times 18=2592$. Or 2592:6::1: $x=\frac{6}{2692}=\frac{1}{432}=\frac{1}{6 \times 8 \times 9}$.
    ${ }^{3}$ Le metqâl mesry se eomposant de 24 Qirâts mesrys, on retranehera de ces 24 Qîrâts $\frac{24}{432}=\frac{1}{18} . \quad$ On aura ainsi $24 \mathrm{Qm} .-\frac{1}{18}=23 \frac{17}{18} \mathrm{Qm} .=23 \mathrm{Qm} .22 \mathrm{q} .2 \mathrm{~h}$.
    ${ }^{4}$ Le Qîrât est égal à 144 dâneqs; dou les 8 dâneq̧s $={ }_{1}{ }^{8} \ddagger$ proportion 18:6::24:x donne également $x=8$ dâneqs.
    ${ }^{5}$ On a vu ei-devant que le nésâb (quantité imposable) de l'or est de $457 \frac{1}{8}$ Qîrâts mesrys.
    ${ }^{6}$ Ajontons à $457 \frac{1}{7}$ son $\frac{1}{43} \mathrm{~T}$; nons aurons $457 \frac{1}{7}+\frac{457 \frac{1}{3}}{431}=457 \frac{1}{3}+1_{3}{ }^{\frac{2}{3} 0^{8} \frac{3}{7}}=458+$ ${ }_{3014}^{807^{4}}=458$ Qm., $\frac{1}{8}$ de Qm., 5 dâneqs et $\frac{{ }^{823}}{3015}$ de dâneq, ou soit encore 458 Qn . $4 \frac{1}{2}$ qîrâts, 1 habbah et $\frac{823}{8017}$ de dâneq.

[^85]:    ${ }^{1} 458: 24=19 \frac{1}{6}$ metq̧âls mesrys.
    ${ }^{2}$ Il suffit pour cela de diviser 458 par 18 , nombre des Qîrâts mesrys que pèse le bondoqy.

[^86]:    ${ }^{3}$ L'alliage du bondogy étant $\frac{1}{2 \pi}$, et eelui du madjar, $\frac{1}{3}$, on a pour le total des deux alliages $\frac{3}{8}$. D'un autre côté, le total des deux fins est représenté par $17 \frac{2}{2} \frac{2}{2}+$ $17 \frac{2}{3}=35_{8}^{6} ; 35_{8}^{6}+\frac{3}{4}=36$. Le rapport de $\frac{8}{8}$ à 36 est bien $8 \times 4 \times 9=\frac{3}{85}$.
    ${ }^{4}$ L'alliage du madjar égale $\frac{1}{3}$; son fin $=17 \frac{2}{3} ; \frac{1}{3}+17 \frac{2}{3}=\frac{64}{3}$. Le rapport $\mathrm{d}^{\prime} \frac{1}{3}$ à $\frac{54}{3}$ est $\frac{1}{64}$.
     $: x=432$.
    ${ }^{6}$ In effet $17 \frac{3}{1}$ et $\frac{1}{18}-17 \frac{2}{3}$ (ou $17 \frac{30}{18}-17 \frac{3}{18}$ ) $=\frac{7}{78} ; \frac{6}{18}=\frac{1}{8}$, et $\frac{1}{88}=13{ }^{3}=3$ dâneq̧.

[^87]:    ${ }^{1} 205714^{\frac{2}{7}}: 6 \frac{1}{4}=32914 \frac{2}{7}$ derhams $=101 \mathrm{k} .698 \ldots$
    ${ }^{2}$ Taqy ed-dìn 'Aly ebn 'Abd el Kâfy Es-Seubky composa un nombre considérable d'ourrages (il est mentionné 83 fois par Hadji Khalîfah). Il mourut en l'a. 756 (Comm. 16 janvier 1355). Cette date donne lieu de croire que c'est en l'annéc 727 que mourut El Qamoûly.
    ${ }^{3} 171 \frac{3}{7} \times 2 \frac{1}{7}=367 \frac{17}{19}$.
    

    - 560 qadh de $367 \frac{17}{19}=205714 \frac{2}{7}$ derhams.
    ${ }^{6} 205714 \frac{2}{7}:\left(6-\frac{1}{6}\right)=35265^{\frac{2}{9}}$ 앙 ou l'ardeb de Mesr du temps d'Es-Seubky.
    ${ }^{7} 171 \frac{3}{7} \times 3=514 \frac{2}{7}$ derhams.
    ${ }^{8}$ En effet $514 \frac{\frac{2}{7}}{7}+\frac{514 \frac{2}{7}}{3}=6 S 5 \frac{5}{7}$ ou le $s \hat{a}^{6}$ 。
    9 $514 \frac{2}{7} \times 400=20.5714 \frac{2}{7}$ derhams.
    ${ }^{10} \frac{205714 \frac{2}{7}}{4 \frac{1}{6}}=49371 \frac{3}{7}$ d. ou l'ardeb de Mesr du temps d' 'Abd Allah el Menoûfy.
    ${ }^{11} 171 \frac{3}{7} \times 3 \frac{1}{8}=535 \frac{5}{7}$ derhams.
    ${ }^{12}$ Le texte lithographié porte ici par erreur む̌ au lieu de clü. $535 \frac{5}{7}+\frac{7}{8}$ de $171 \frac{3}{7}=535 \frac{5}{7}+150=685 \frac{5}{7}$ d. ou le sâ ${ }^{6}$.
    ${ }^{13} 535 \frac{5}{7} \times 3$ S4 $=205714 \frac{2}{7}$ derhams.
    ${ }^{14} \frac{205714 \frac{2}{7}}{t}=51428 \frac{ \pm}{7}$ derhams $=158 \mathrm{k}$., 904 .
    ${ }^{15}$ En effet $51428 \frac{1}{7} \times 4=205714 \frac{2}{7}$ derhams ou le nésúb, ou 300 sâ de $171 \frac{3}{7}$ derhams, ou cinq wasq.
    $16128 \frac{\frac{1}{7}}{} \times 400=51428 \frac{1}{7}$ derhams.

[^88]:    ${ }^{1} 144 \times 357 \frac{1}{7}=51428 \frac{8}{7}$ derhams.
    ${ }^{2}$ Ce ratl est, comme on l'a vu, de $128 \frac{4}{7}$ derhams. $1040 \times 300=312000$ derhams. $312000-205714 \frac{2}{7}=106285 \frac{5}{7} ; 106285 \frac{5}{7}: 128_{7}^{4}=826_{3}^{2}$. Le texte a omis la fraction.
    ${ }^{3}$ Ces expressions démontreraient que l'auteur eonsidère le ratl de Baghdad comme le senl légal ; e'est ce que je erois aussi.
    ${ }^{4}$ Nom moderue de l'aneieuue Edesse des Grees et des Croisés, Er-Roha des arabes.
    s T'ahâ est une ville du Sâtôd d'Egypte, près d'Osyout, elle est eélèbre par la naissanee du juriseonsulte hauafîte Et-Tahâwy.
    ${ }^{6}$ El Djabarty et le Guide du Fateb disent 800 derhams.
    ${ }^{7}$ Le Guide du Kâteb ne lui dome que 480 derhams.

[^89]:    ${ }^{1}$ El Mahallah, autrement appelée Mahallat ed-daqala et aujourd'hui Mahallat el Kebir, est une ville d'Egypte, dans la province de Gharbiyeh.
    ${ }^{2}$ Foûwwah, petite ville près d'Alexandrie et une des localités célèbres dans les livres anciens.
    ${ }^{3}$ Ville d'Egypte. C'est Samannoúdy qu'il faut sans doute lire dans El Djabarty, au lieu de Samanoûry.

    * Et non djaziry, comme le porte El Djabarty, qui lui assigne d'ailleurs le même poids.
    ${ }^{\text {s }}$ Ce mot signifie à la fois romain (Grec Byzantin), du pay̧s de Roûm ou Asie Mineure, grec (moderne) et, dans les Etats Barbaresques, Européen.
    ${ }^{6}$ L'auteur se sert de cette expression pour désigner, comme on va le voir, des poids autres que le ratl, et des mesures de capacité.

[^90]:    ${ }^{1}$ Sur tous ces poids et mesures, conf. El Djabarty, Mar Eliya et mes Materiaux.

[^91]:    ${ }^{1}$ The Kārana-s'arira is not only identified with Ignorance (Ajùāna or Avidyã), but also with Illusion (Māyā). Both Ignorance and Illusion are the sole cause of the separation of the personal God and the personal human Soul from the Cniversal Soul. In the same way they are the cause of every existing thing.

[^92]:    ${ }^{1}$ See the Miṇdäkya Upanishad.

[^93]:    ${ }^{1}$ In other mords, the Kāraṇa-śarīra, or illusory corporeal disguise (upādbi) of the impersonal Spirit Brahmă, consists of Ignorance, and is bound by the three Gunas. By reason of this investing enrelope and triple bond it becomes the personal God Parameśvara, who is thence called Saguna (associated with the Gunas). In its impersonal state the Spirit is nirguna.
    Sometimes regarded as equiralent to Passion or Pain, Purity or Happiness, and Apathy or Ignorance.
    ${ }^{3}$ In the later mythology the expression S'akti is substituted for Māyā, for Prakriti, and for Ajnanna, and represents the wife of the personal God.
    ${ }^{4}$ Such orthodox holders of the true Brähmanical doctrine are regarded as followers of S'aukara and called Smãrtas.

[^94]:    ${ }^{1}$ S'iva is the great ascetic (the counterpart of Buddha), the great philosepher who became incarnate in S'ankaraćarya, and the revealer of Grammar to Pänini.

[^95]:    ${ }^{1}$ How is it that we have two or three scientific prose translations of the Bhagavad-gītā, while $\pi e$ have none of the Bhāgavata-Purāna, nor of the two Rāmāranas, and, still more strangely, none of the Samhitās of the Vedas? Another translation of the Bhagavad-gita has just been published as one of the series of "Sacred Books of the East." With it are printed two episodes (with an index as full as a concordance), which occupy much space, but are scarcely eutitled to be called "Sacred Books." It is a pity that the utility of these translatious (good as some of them are) is seriously impaired by the unEnglish system of transliteration adopted.
    ${ }^{2}$ S'airas, on the other hand, worship symbols and monstrous shapes like those of Ganessa and Kālī.

[^96]:    ${ }_{1}$ This is because there are 108 chief names given to Krishua as the Supreme Being.

[^97]:    ${ }^{1}$ Quoted by Mr. Growse, C.S., in his interesting Memior of Mathuri, p. 182.

[^98]:    ${ }^{1}$ The central shrine is shaped to represent the form of the sacred syllable 0 m .

[^99]:    1 This was his theory, but among his mmerous followers of the present day the doctrine of equality does not overcome easte-feeling and easte-observances, exept during religious services. The food presented to the idol of Jagannath is distributed to all eastes alike, and eaten by all indiseriminately at the annual festival.
    ${ }^{2}$ These correspond to the Zikr and religions dancing of the Muhammadan dervishes. For even cold Islum has its devotees who aim at religious cestasy and resort to expedients very similar to those of the C'aitanyas.

[^100]:    ${ }^{1}$ I believe the full title is Mahārājādhirāja.

[^101]:    ${ }^{1}$ The profligacy of the Mahārajas was exposed in the celebrated trial of the Mahāaja libel case, which came before the Suprene Court of Bombay, on the 26th of January, 1862. The evidence given, and the judgment of the judges, have acted as some check on the licentious practices of the sect.
    ${ }^{2}$ It ought to be mentioned, however, that Dayānanda Saraswati Srāmī, who is the leader of a new Theistic sect, called the Ārya-Samāj, at Bombay, has written two treatises in Sanskrit and Gujarātī to show that Srämi-Nārāyana's teaching is quite as objectionable in its tendency as that of Vallabhácoarra.

[^102]:    1 Sādhu is a general term for a man who has giren up the world for the practice of religion. The title Sannyasi-properly applicable only to Brahmansis usually confined to S'aiva ascetics.

[^103]:    ${ }^{1}$ According to the Prem-saigar, it was on the night of tho full moon of this month that Krishna first danced with the Gopis the circular dance called RasaMandala.
    ${ }^{2}$ Almost all grown-up males in India havo stentorian voices, and are in the habit of talking loud, cven in ordinary conversation. This is amusiugly illus-

[^104]:    trated at railway stations, where the native passengers collect in crowds long before the arrival of the trains. It is equally common at religious gatherings, and no idea of irreverence seems to be connected with the practice of shouting to each other on such occasions.

[^105]:    ${ }^{1}$ That is to say, the Moslem adrocate is made to represent the Nestorian as the worst, and the Jacobite the best, form of the Christian religion. The Arabic MSS. reverse this statement, and make Al-Kindy a Nestorian, which no doubt he was.

[^106]:    ${ }^{1}$ Hiouen-Thsang, in I'ie el Tonages, p. 274, and in the Voyanes, vol. ii. p. 214, describes two ehambers cut in the rock of Khavandha, near the Pamir plateau. In eaelr chamber there was a Lo-hrn, or Arlat, "plongé dans l'extase complete." So far as this example goes, it indicates that each Cave would be the habitation of one monk.

[^107]:    ${ }^{1}$ In the Bengal Archæological Surrey Reports, vol. i. p. 48, General Cunningham says that an inscription in the Viswa Mitra Care, at Barabar, gives the date of its dedication in the 12 th year of the Raja Priyadasi, or Asoka, or 252 b.c.

[^108]:    ${ }^{1}$ See Journal of the Royal Asiatic Society for April, 1881.

[^109]:    ${ }^{1}$ See Ariana Antique, p. 105.
    ${ }^{2}$ Arehsological Survey of India, Cunningham, vol. ii. p. 64, where it will be seen that the fame of this legendary Rajah extends from Jelalabad to the l'unjab. Lowenthal derives the name of Udi from Udyana; but General Cnuminghan identifies it with "the great Indo-Seythie race of Yuti or Fuchi." Macgregor, in his papers on Central Asia aud Afghamistan, states that in Kaffirstan "their kings are named Oda and Odashooh." We havo here perhaps the most probable origin of the name.

[^110]:    ${ }^{1}$ Sinee this was written I have beeome aware that Professor Sayce is about to publish yet earlier examples of ancient Indiau writing, but they will uot, I believe, inelude any examples of numerals.
    ${ }_{2}$ The results of the examination of the Namá Ghat inseriptions by the Bombay Areheologieal Survey have uot yet reached lingland. The numerals of the Num Ghat period are therefore taken from the faesimiles giveu by Bharwan Lal Indraji in the Indian Autiguary for 1877, vol. vi. pp. 44-47.

[^111]:    ${ }^{1}$ A priori, numerals are likely, at least in all ancient systems, to be of later date than writteu expressions of ideas, for they seem to have been oriminally little else than "shorthand" modes of vroting numbers. Of course, however, when an alphabet is borrowed from an external source, as the Indian alphabet in its initial form probably was, the alphabet so borrowed may have already had a sristem of sumeratiou attached to it, which was imported with it. There is, however, one fact which might be held to indicate that the Indian alphabet origiually posiessed no uumeral system. The old Pali mritings of Ceylon, that is, the books of the Buddhist religion written in the sacred language of Buddhism, do not emplor any numerical signs. This religion and its language mere introduced from India into Ceylon apparently during the fourth, or late in the fifth century b.c. In these books the numbers are either expressed in mords, or by a certain arrangement of writteu syllables. It does not, homever, necessarily follow that the Indians were at that time altogether ignorant of numerical uotation by separate signs; only that in all probability such a method had not come into use in sacred writings, or in MSS. of any kind. Some such system indeed very probably existed in India even before 400 b.c., though perhaps in a more or less imperfect state, for, as will be seen presently, there is some ground for beliering that it receired improvements by successire borrowings down to the middle of the second century B.c.- [M. Rodet and Professor Rask, quoted br Pihan, Signes de Numeration, pp. 142-43; also Cautor, Mathematische Beitrage, pp. 58-59.]
    ${ }^{2}$ The references attached to this Plate indicate the authority on which each figure is adduced: for the most part it will be seen that these are given from original photographs or coins, and only when that is not possible from trustworthy facsimiles.

[^112]:    ${ }^{1}$ Dr. Bühler's memorandum was attached in the first instance to a private letter, and was originally intended only for my personal use, and not for publication.

[^113]:    ${ }^{1} d a$ is the northern equivalent for $!a$ in the language also.

[^114]:    ${ }^{1}$ Since seeing the tables given in Pl. IT. Dr. Bühler informs me he is convinced that the "Aksharapalli" is of an origin extraneous to India, though he still finds it difficult to believe that its signs are borrowed from four or five different sources.-E. C. B.

    2"Zeitschrift der Deutschen Morgenländischen gesellschaft" for 1877, vol. xxi. p. 598.

[^115]:    ${ }^{1}$ It is by no means intended to intimate any dissent from Dr. Bühler's views on this part of the subjeet; on the contrary, they secm at least a prini reasonable. It may perhaps be a question how far the examples gireu by Dr. Bühler go to prove the derivatiou of the Maurya forms of writiug from the Andha, they scom at least equally eonsistent with the supposition that both may have beeu derived from some earlier coumon original, to which perhaps, in its square and more arehaic forms, the Manrya may preserve a closer resemblauce than the Andhra does. The more rounded forms of the latter may perhaps be due to the nature of the substance written upon-whieh to some extent is even still locally employed for writing, viz. the palm-leaf. On the other haud, Dr. Bühler's arguments may perhaps be held to make it at least probable that the early modifications of the letters which he traces to Brahman iufluenee actually grew up for the most part in the Andhra alphabet, and that they were adopted thence by the Mauryas. Iudecd, this is a priori probable, inasmuch as the Andhra court ser-ms to have flourished for some time previons to the consolidation of the Maurya power, and would thus have furnished a centre of civilization and learning, where Brahmans would be more likely to tind extensive patronage, than elsewhere in Central India at that day. Indeed, even afterwards, the atmosphere of the Maurya Court was possibly not (especially during its later years) altogether favourable to the development of Brahmanical ideas, (1therwise the divergence between the Andhra aud the Maurya alphabetical types hardly seems greater than local eireunstauces would usually produee in Iudia, withiu a moderate period of time.

[^116]:    1 It mar be obserred that the influence of the aksharas and the Brahmanical manipulation of the numerals would hardly begin to take effect till the numerals were employed for manuscript purposes, -or perhaps for use in sacred MSS. ; and, as will be seen from what has been said in a prerious note ( $\mathrm{p} .33 \overline{7}$ ), of Professor Rask's remarks on the ancient Cingalese numerals, this use did not probably begin till the fourth or fitth century B.c.

[^117]:    ${ }^{1}$ See General Cunningham's paper, J.A.S.B. rol. xxiii. for 1854, p. 703, note. It will be observed further on, that I have not entirely adopted the details of General Cunninghan's identifications; indeed, with the fuller knowledge of the Bactrian letters which we now possess, and which is so largely due to General Cuuningham's own labours, that writer would not probably himself now maintain them all, or indeed the theory founded on the facts as then understood by him.

[^118]:    ${ }^{1}$ Cf. Gesenius, Monumt. Vet. pp. 80-88; Pihan, Signes de Numeration, p. 165 ; and De Luynes, Numismatique des Satrapies et de la Phénicie, pp. 112-114.
    ${ }_{2}$ See Pihan, Sigues do Numeration, p. 164.
    ${ }^{3}$ P'ihau, Signes de Numeration, p. 26.

[^119]:    ${ }^{1}$ The old form, however, occurs on one of Knmára Gupta's inscriptions at Garhwa (of 129 Gupta), Cunningham, Arch. Surrey, vol. x. p. 7, pl. iv.
    ${ }^{2}$ Though in this case also the sign is differentiated to express two hundred.

[^120]:    1 Indeed of hardly of any except the five.

[^121]:    ${ }^{1}$ It need hardly be said that the use of the "abacus" is still common in every village bázar in India, and has been universal apparently from time immemorial.
    "The term "akshara" (from the negative "a" and "kshar"), signifying "indestructible," "incorruptible," seems to be a term invented after the introduction of writing, or at least of numeral signs, as indicating the superiority in respect of durability and accuracy of the phonetic signs.

[^122]:    ${ }^{1} \mathrm{M}$. Woepeke (Sur l'Introluction de l'Arithmetique Indienne en Occident, p. 68) quotes from Sibth ul Máridiní, who died in 1527-28 A.d., auother mnemonic arrangemeut of letters according to the Abjad system, iu groups according to the powers of cach unit, thus $1,10,100,1000$; and 2, 20, 200, 2000 , etc.

[^123]:    ${ }^{1}$ See Thompson's Hindi Dictionary ; also Fallon's Hindustani Dictionary, in core "Chbápa." In the latter, a quotation of a Hindi rerse mill be found, in which the word occurs in this sense.

[^124]:    ${ }^{1}$ The presumed date of the "Rhind" Papyrus, but the first use of these symbols was probably older still.

[^125]:    1 This fact may perhaps explain the following quotation from Sihth ul Máridiní (Woepcke, Sur l'Introduction de l'A rithmetique Indienue en Occident, p. 67): "Sache\% que les ordres elementaires des nombres sont au nombre de trois: mités, dixaines, et centaines, dout chacun comprend neuf noruds."

    2 The term "latest" is used with the knowledge that an apparently new symbol for a hundred (which Gen. Cumbingham supposed to be a lactrian letter) occurs anong the Indo-Seythian and Gnpta mumerals, but this scems rather a cursive modification of the ' $s$ ' shaped, or second oldest, form of the symbol (of which it has heen suggested that it came from the Bactro-l'hocuician form), the 'crook' on the left sido only being omitted.

[^126]:    ${ }^{1}$ This has already been suggested by Pandit Bhagwán Lál (Indian Antiquary, rol. ri. for 1877, p. 46).
    ${ }^{2}$ I am indebted for these signs to the kindness of MIr. Pinches, of the British Museum.
    ${ }^{3}$ The Himparitic ' 50 ' is also of the same form as the Akkadian ' 60 ,' and is also augmented by signs for ' 10 ' (Ind. Ant. rol. iv. p. 27).

[^127]:    ${ }^{1}$ Specially that in J. A. vol. i. series 6.
    ${ }^{2}$ Maspero, "Histoire Ancienne des Peuples de l'Orient," pp. 146-148, 168-170; F. Lenormant, "Manuel d'Histoire Ancienne de l'Orient," rol. ii. pp. 240-244.
    ${ }^{3}$ Cf. also Heeren (Asiatic Nations), vol. i. Chapters on Babylonian and Phœnician commerce.
    ${ }^{4}$ See 1 Kings xxii, 45.

[^128]:    ${ }^{1}$ Journal $\Lambda$ siatique, series 6, vol. i. p. 351.
    ${ }^{2}$ Numismatique des Satrapies et de la laugue de la Phénicie, pp. 112, 114.

[^129]:    ${ }^{1}$ Reinaud, in Journal Asiatique for 1863 , vol. i. series ri. p. 97 ; see also rest of memoir, pp. 93 to 234 . If we compare this Indian traffic to that with Eiurope before the employment of steam navigration, and deduet from the latter the demand for military and civil organization, the result will show that the purely eommereial intercourse of modern times was not very greatly in adrance of that of the last eentury B.c.

[^130]:    ${ }^{1}$ Dr. Leitner has recently colleeted a number of forms of mumerals used in Kashmir by shawl-weavers and others, which exaetly answer the description here given.- " Linguistic Fragments," Scc. I. Lahore, 1882.

[^131]:    ${ }^{1}$ For a general description of the phonetic equivalents used in Sanskrit and iognate languages, see Noureau Journal Asiatique, rol. xri. pp. 1-42 (Jacquet); series 6, rol. i. pp. 28t-90 (Toepcke); and series 7, vol. xrii. p. 47-130 (Rodet).

[^132]:    1 These facts are given on the anthority mainly of my friend Mr. R. S. Poole, of the British Musemm.
    ${ }^{2}$ Sir Gardner Wilkinson's Aucicut Egyptians, vol. ii. p. 367, ed. 1575.

[^133]:    "Like unto this (sc. a beggar) he entered the city of the Trojans and they (other people) were unaware" (or 'like babies').

    The derivation given is from the rerb $\beta a \zeta \omega$ 'speak,' with the negatire ' elpha,' that is, 'speechless (like a baby),' quâ 'in-fans'; other words with the same derivation, such as $\dot{\alpha} \beta \alpha \kappa \eta s$ (adjective), àßaкє́ $\omega s$ (adrerb), $\dot{\alpha} \beta \alpha \kappa i ́-$ Sopau, גßarクíaiv, all with the same general sense, are also quoted in Liddell and Scott's dictionary (see ${ }_{\alpha} \quad \beta \alpha \xi \xi$ ). ${ }^{\wedge} A \beta \alpha \xi$ would thus in Greek mean 'speechless,' 'wordless,' or 'non-phonetic'-surely a very appropriate term for a 'silent' mode of calculation whieh superseded the phonetic 'aksharas.' The common Sanskrit term for the instrument seems to be páthi, which signifies 'a board' or 'calculating board'; but the exaet deriration is not given with certainty in any dictionary which it has been possible to consult. The Hindi word seems also to signify primarily 'a board,' though it may hare reference to lines or divisions. But this deriration is not quite clear. In Russia (where the introduction of the instrument is attributed to the Mongols) its name signifies a 'counting' or 'computing' board. These later etymologies, however, do not throw much light on the original character of the instrument.

[^134]:    ${ }^{1}$ It was the recognition of the old mode of differentiation as employed in these which led to an examination of the principle of that method, which was the commencement of the inquiry on which this paper is founded.

[^135]:    ${ }^{1}$ The evidence (from coins) on which this statement is based will be the subject of a separate paper in the Numismatic Chronicle, in connection with the era to which the dates belong, which these figures are used to denote.
    ${ }^{2}$ There can be little doubt as will be explained in the Numismatic Chronicle that the Arabs obtained their numerals from Kabul.

[^136]:    ${ }^{1}$ The Valabhi dates extend over a period of about 240 years. These dates give three nearly equal periods of about 80 years, say from 206 to 290 (Valabhi), 290 to 365 , and 365 to 447 ; the first period terminating with the reign of Siladity I., and the third commencing with that of Siladitya IlI.

[^137]:    1 The close resemblance, as regards both the forms of the characters and the dialect they express, between the inscriptions found in the 2nd columu of the Alhemenian texts, and at Mal Amir in Susiania, led me in 1874 (Tr. Soc. Bibl. Arch. vol. iii. p. 2) to state my conviction that the so-called Skythic or Protomedic was really the old language of sonth-western Elymais. The discovery that Kyros and his predecessors were kings of Anzan rather than of Persia, has confirmed this belief, since Anzan was the native name of the district in question, and the fact that it was the original kingdom of Kyros would suffieiently explain the prominence given to its language in the inscriptions of Darius and his successors.

[^138]:    ${ }^{1}$ The Ansayrii, rol. ii. pp. 151-2 (1851).

[^139]:    ${ }^{1}$ These aro not the first bronze objects obtained from Van. A bronze solar disk of remarkable form, and resembling the solar disk of Hittite art, diseovered in the neighbourhood of Van, is figured in the Mélnnges asiatiques de l'Acad. de S. Iétersbourg, vol. vi. pp. 486, etc. It bears a curious rescmblauce to a humanheaded and winged solar disk of bronze found at Olympia (Archöologische Zeitung, 37.4 , p. 181; 1879), as well as to two similar oues found at Palestrina or Prenesto (Mon. dell' Instituto, 1876 and 1879).

[^140]:    ${ }^{1}$ Ap. Joseph. Antiq. i. 3, Euseb. Prop. Ev. 9. According to the local tradition, the ark had rested on Mount Baris above Minyas. Baris is the Lubar of the Book of Jubilees (ch. 5), which Epiphanius (Adv. Har. i. 5) makes the boundary betreen Armenia and the Kurds (see Syncell. Chronog. p. 147; G. Cedrenus, Comp. Hist. p. 20).

[^141]:    ${ }^{1}$ Rowandiz seems to be the Baris of Nicolaus Dam., the Lubar of Jewish tradition. See note on p. 389.

[^142]:    1 W.A.I. i. 45, ii. 30.
    ${ }^{2}$ Nivibu is a niphal derivative of cribu 'to desceud,' and is always used of the low ground into which one descends from a height.

[^143]:    ${ }^{1}$ Nigdiara, king of the Idians, defeated by Shalmaneser in b.c. 856, is called Migdiara by Samas-Rimmon, whose general, Mulis-Assur, captured 300 cities belonging to his son and successor, Khirtsina or S'artsina, on the shores of 'the sea of the setting sun,' i.e. Lake Van (b.c. 824).

[^144]:    ${ }^{1}$ Kirkhi is deseribed as 'opposite the land of the Hittites,' i.e. the northern portion of the IIttite territory on the east bank of the Euphrates. Among the towns of Âssa and Kirkhi were Umalie and Khiranu in Adana; after leaving these, the Assyrian king marched into the land of Amadauu, that is, the district of Amida or Diarbekir. Having burned Mallam in Arkania, and tho cities of Zamb:a, he crossed the Sun (IV.A.I. i. 25. 97 sq.), reached tho Tigris, and then

[^145]:    the towns of Barza-Nistun, Dandamusa, and Ameda. From Ameda he withdrew to Allabzie and Cda, in the mountains of Kasyari or Masius. Amadana is mentioned along with fifteen other mountainous regions by Tiglath-Pileser I. (W.A.I. i. 12, iv. 58 ), who, after passing through them, reached the banks of the Euphrates. Crossing the river, he made his way to Nimme, Dayaeni and twentyone other districts of 'Nairi.'

[^146]:    ${ }^{1}$ Botta, 148, 4.
    ${ }^{2}$ See Black Obelisk, 176-179.

[^147]:    ${ }^{1}$ Atsus is really the case denoting duration of time (v. 2), which seems to have been the nominative in Tannic.

[^148]:    ${ }^{1} T_{e}$ here must stand for -tie, just as $-d i$ will stand for $-d i e$.

[^149]:    1 As $m a$ is found only in one passage (xxxyii. 26), it is very possibly a false reading.

[^150]:    ${ }^{1}$ Since it precedes its noun in other instances in which it is found, it is possible that here also we are to construe it with the plural nouns 'gods' and 'cities ' which follow.

[^151]:    ${ }^{1}$ In liii．7，where we are dealing with another dialect than the Tannic，the noun

[^152]:    ${ }^{1}$ So too in the case of the local suffix (e.g. xxxi. 3) and locative suffix (e.g. xxxi. 6, 7).

[^153]:    1 If we are to read anniu, it would betray a diphthongisation of the Assyrian $u$ (in $a n n u$ ) on the part of the Vaunic scribe.

[^154]:    ${ }^{1}$ A word of similar formation is ikuka-ni 'property.'
    ${ }^{2}$ The root of inus 'chamber' and inas 'city' seems to be the same. If so, the primitive Armenians would appear to have been troglodytes,

[^155]:    ${ }^{1}$ Si－，however，in both giei－si－da and alstui－si－ni may be the adjectival sutlix．

[^156]:    ${ }^{1}$ Schulz has here introduced the $r u$ of the preceding line．It is omitted by Layard．
    ${ }_{2}$ Layard has $i$ ．But ini＇this，＇does not suit the inscription，as it was not set up inside or outside a house．Moreover ini is not genitive．
    ${ }^{3}$ Layard has ri here and in the duplicate line．But in the latter Schulz has the ideograph of＂house＂very clearly，and other inscriptions（see p．459） show that this reading is right．
    ${ }^{4}$ Omitted by Layard．Schulz has the two lower wedges only．

[^157]:    ${ }^{1}$ Both Layard and Schulz have $d u$, incorrectly, as is shown by the equivalent idcograph in the duplicate line.
    ${ }^{2}$ So Layard. ${ }^{3}$ So layard. ${ }^{4}$ So Layard.
    ${ }^{5}$ So Layard. Schulz has $k u$, but dhu in the duplicate text.
    ${ }^{6}$ So Layard. Schulz has rad.
    7 So Layard.
    ${ }^{3}$ Layard has ni-di, plainly incorrectly. $\quad{ }^{3}$ Layard omits.

[^158]:    ${ }^{1}$ So Layard．Schulz inserts a character which may be $i$ ．
    ${ }^{2}$ Layard has me；but as he has si in the duplicate line，Schulz must be right．
    ${ }^{3}$ So Layard．

[^159]:    ${ }^{1}$ So Layard．Perhaps we should read－ $\boldsymbol{Y} \boldsymbol{Y} \lll$ di－ra－hu－he，＂to the gods of Dias．＂
    ${ }^{2}$ So Layard，doubtfully；Schulz has a lacuna．The reading ni is certified br 1.20 ．
    ${ }^{3}$ So Layard．
    ＋So Layard．
    ${ }^{5}$ So Layard．Schulz has a lacuna．
    ${ }^{6}$ So Layard．
    ；So Layard．

[^160]:    ${ }^{3}$ So Layard，
    ${ }^{5}$ So Layard．
    ＊So Layard．

[^161]:    ${ }^{1}$ So Layard. Schulz has the non-existent my
    ${ }^{2}$ So Larard. ${ }^{3}$ So Layard. ${ }^{\text {S So Layard. }}$
    ${ }^{5}$ Layard and Schulz hare $l i$, but $a d a$ is elsewhere the copulative conjunction.
    ${ }^{6}$ So Lajard.
    i So Layard. Schulz has $-=\boldsymbol{=}$, doubtfully.

[^162]:    ${ }^{1}$ So Layard．
    ${ }^{2}$ Schulz has $t s i$ ，Layard doubtfully $t s i$ or siar．
    ${ }^{3}$ So Layard．
    4 One charactor is lost here．

[^163]:    ${ }^{1}$ Or perhaps, more probably, the s'i- is the adjectival suffix, as in alu-sii, nu-s'i.

[^164]:    ${ }^{1}$ It must, however, be remembered that Joannes Lydus adds that the Lydian historian Xanthos called इápós ミúaors, which presupposes a root khshucar or kiswar.

[^165]:    ${ }^{1}$ It is possible that this termination -la may be a euffix bearing the same relation to -li that -na does to -ni. In that case kihuru-la might signify 'he who is alter the slaying,' i.e. 'the priest.' The passage perkaps refers to the portion assigned by the kiugs to the officiativg priest.

[^166]:    ${ }^{1}$ Since the abore ras in trpe it has occurred to me that the correct translation of the difficult passage in 11. 29-31 (S1-S3) is as follows:-"After the beginning of the rear 3 sheep to be sacrificed to Khaldis $(\mathcal{S}) 3$ sheep to the gods of the peoples, of the chapels $(\mathbb{K})$ of the monument after the spring; to Khaldis 3 sheep to be sacrificed ( $\mathcal{E}$ ) 3 sheep to the gods of the peoples, of the chapels $(\mathbb{E}$ ) of the monument after the summer; to lihaldis 3 sheep to be sacrificed ( $\&$ ) 3 sheep to the gods of the peoples after the winter."

[^167]:    ${ }^{1}$ l'ossibly mu-hu-(mu-i-ya-bi), as in xli. 15. Cf. mumuni, lxv. 23.

[^168]:    ${ }^{1}$ In xxxvii. 26 we find: Y Mu-ru-ba(-a-ni) ma-ri-ni kar-bi agunu-ni-ma gunusd thanbi 'Murubas, (and) his [ma] . . statues (?) (and) goods for a spoil I captured.' Here the word occurs without the determinative of 'stone.'

[^169]:    ${ }^{1}$ So Dr. Lambrino from another fragment of stone.
    ${ }^{2}$ So Layard.

[^170]:    ${ }^{1}$ Possibly we should read (Enf (ru-ku)-si $\upharpoonright \lll-n a$.

[^171]:    ${ }^{1}$ The general sense of the passage will be: "The temple-lands of Khaldis (and) the gifts eoming from each for these gods (are) the offerings of Menuas, both for sacrifice to Khaldis the . . . . , and for the gods who belong to the shrine, consisting of lambs.' If kuruni can be taken as a 3rd person singular, the eonstruction will be simpler: "The temple-lands of Khaldis he has given for each of these gods as the offerings of Menuas,' ete.

[^172]:    ${ }^{1}$ The general sense of the clause must be: 'The . . . of Menuas Khaldis has marked out (or consecrated) among the gods that are here (and) among the kings hereaiter, who assemble the people, as the eating-place of the chapel of Menuas.'

[^173]:    ${ }^{1}$ Can this armani-s be the origin of the name of Armenia which first makes its appearance in the Akhæmenian texts,-Armina in Old Persian, Harminuya in the Amardian or 'Protomedic' transcript? The uncultured eastern neighbours of Ararat might well have called it Armana-s 'the land of writings.'

[^174]:    ${ }^{1}$ Sce Moriz Schmidt.

[^175]:    1 There is another possibility, however. Turis may be eonneeted with the root of ternbi 'I set up' or 'established,' and signify 'amomment.' Turie and furi would then be the aeensatives phural of this word, while turi-ni-ni would be the acc. sing. of an adj. in -nis. But there are many probabilities against this hypothesis. An ace. sing like turi-mi-ni standing by itself is mprecedented, and the place whieh it occupies at the begimning of the line in whiel the names of the gods are written is against its being construcd with the proceding verbs. Moreover, the parallelism of ainei seems to show that twie or twi is a genitive-dative, which is further confirmed by the use of the form luri.

[^176]:    1 Layard has ni.
    ${ }^{2}$ So Layard.
    ${ }^{3}$ So Layard.
    ${ }^{4}$ So Layard.
    ${ }^{5}$ Layard has
    6 Schulz and layard have learn that it is $n i$.

[^177]:    ${ }^{1}$ So Schulz and Layard. Da, however, is required ; see xxxiii. 23.

[^178]:    ${ }^{1}$ For si-hu-da $a-d a$ sce note un siii. 2.

[^179]:    ${ }^{1}$ Omitted in the duplicate text.

[^180]:    ${ }^{1}$ So Layard.

[^181]:    ${ }^{1}$ Layard has . . Y.
    2 Schulz has tar.
    3 Layard has $m u$, Sehulz a character which resembles $m u$ more than $t$.

    - The copies have acive。

[^182]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ So Layard.
    ${ }^{3}$ So Layard.

[^183]:    ${ }^{1}$ Mordtmann makes kuruni (which he reads turuni) 'dedit,' but renders karuni ' he was.'

[^184]:    1 Perhaps e. See line 14. The next word may be mинa-bi 'I attacked.'
    Lajard has $l i$.
    ${ }^{3}$ Layard has se.

    * Layard has i.

[^185]:    ${ }^{1}$ Layard has $l i$.
    ${ }^{2}$ Layard has 7.
    ${ }^{3}$ See lvi. iii. 3.

    - Layard has $l i$.
    ${ }^{7}$ Layard has 7.
    ${ }^{5}$ Layard has $l i$.
    a Layard has me.

[^186]:    1 Written ；apparently for kab＜E，though perhaps for kar．

[^187]:    ${ }^{1}$ So Layard. ${ }^{2}$ Layard has ${ }^{4}$ (?) ${ }^{3}$ So in line 14 ; Layard has bad (?).
    ${ }^{4}$ Perhaps la; sce note. $\quad{ }^{6}$ So in line 14.
    ${ }^{6}$ So in line $9 . \quad{ }^{7}$ The printed text has ma, but the original copy reads na.

[^188]:    last lines of the inscription were published in "Ararat," Feb. 18\%0.

[^189]:    1 The text has $a$.

[^190]:    ${ }^{1}$ For the inscription of Menuas in the pass of Kelishin see No. lvi. It is possible that No. liv. also belongs to Menuas.

[^191]:    ${ }^{1}$ So Layard and Robert.
    ${ }^{2}$ It is very doubtful whether a character is really lost here.

[^192]:    ${ }^{1}$ Layard inserts here $e$ (?). ${ }^{2}$ So Layard and Robert. ${ }^{3}$ So Layard
    ${ }_{4}$ Schulz has $70 . \quad{ }^{6}$ Layard has $15 . \quad{ }^{6}$ Omitted by Robort.
    7 So Schul\%, Iayard and Robert. ${ }^{8}$ So Layard aud Robert.
    9 So Robert. Layard and Schulz have
    in Robert has $n i$; perhaps wo should read sa.
    ${ }^{13}$ So Robert. Layard and Sehulz have ga.

[^193]:    ${ }^{1} G a$ in xxxix. 62.
    ${ }^{2}$ So layard.
    ${ }^{3}$ So layard; perhaps the character is da.
    *So Layard.

    - I'erhaps śudhukubi 'I despoiled.'

[^194]:    ${ }^{1}$ So Layard；Schulz has $\rangle\rangle$－contrary to analogt．
    ？So Layard．
    So Layard．
    ${ }^{1}$ So Layard．

[^195]:    ${ }^{1}$ Can the phrase rcally be: "Among the people of the king and among the priests to Khaldis, Tcisbas, Ardinis, and all the grods of the iuhabitants, E/hal-die-di, etc., agrecing with abaibadi? Adabidi will theu be the simple substantive adabis 'service,' from which adaba for adabia is formed. Ada has the idea of 'company' in adaisí li. 4, as well as iu the conjunetion ('and ' = 'along with'). Argistis says that he had built the citadel "for the people of Khaldis" (Khaldia) : he might therefore consider that the spoil he brought home was brought back for his subjects. Moreover the words with which the sentence usually concludes (khasi-al-me $\rightarrow Y \mid \lll<)$ would fayour this interpretation.

[^196]:    ${ }^{1}$ So Schulz and Layard，but we ought to have ni．
    ${ }^{3}$ Schulz has la．
    ${ }^{4}$ Schulz and Layard have da．
    ${ }^{2}$ Layard has $\sim$ 筑。
    ${ }^{5}$ So Larárd．

[^197]:    ${ }^{1}$ Layard has 2 -

    - Layard has VII.
    ${ }^{5}$ So Layard; Schulz has $i$.
    ${ }^{2}$ So Layard.
    - So Layard.
    ${ }^{6}$ Layard has LXX.

[^198]:    ${ }^{1}$ Schulz by an oversight inserts al here，which is omitted by Layard．

[^199]:    1 Schulz has na.
    ${ }^{2}$ So Layard.
    ${ }^{3}$ So Layard. Perhaps a character is lost between is and lu.

[^200]:    ${ }^{1}$ So Lajard.

[^201]:    ${ }^{1}$ So Layard．
    ${ }^{2}$ Layard reverses lines 52 and 53，making line 53 precede line 52.
    ${ }^{3}$ So Layard doubtfully．

[^202]:    ${ }^{1}$ So Layard. ${ }^{2}$ Schulz has i. ${ }^{3}$ Schulz has ra.
    ${ }^{4}$ Schulz has di. ${ }^{5}$ Schulz has la. ${ }^{6}$ So Layard; it is omitted by Schulz.
    ${ }^{7}$ Schulz has ma. ${ }^{8}$ So Layard.

[^203]:    ${ }^{1}$ Schulz has $a p$.
    ${ }^{2}$ Schulz has la.

[^204]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ Perhaps we should read
    ${ }^{3}$ So Layard. Possibly kar-bi 'stones' or 'momments.'
    ${ }^{4}$ So Layard. If we read $i$ with Schulz, we must correct $a$ into si and so get si-i-hu-bi.
    
    ${ }^{9}$ Layard has $\Longrightarrow y$, which cau hardly be correct. For Satiraraus sce xl. 54. ${ }^{10}$ Schulz and Layard have tha doubtfully. ${ }^{11}$ So Layard.

[^205]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ So Layard.

[^206]:    1 So Layard.
    2 So Layard.

[^207]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ So Layard. ${ }^{3}$ So Layard. Schulz has a misformed ki,
    

[^208]:    ${ }^{1}$ Larard has XM.
    ${ }^{2}$ So Layard; Schulz has DC . . . VI (§).

    * Line 35 shows what has to be supplied.

[^209]:    ${ }^{1}$ So Laỵard. Schulz has Ni-ku.
    

[^210]:    ${ }^{1}$ So Layard.

[^211]:    ${ }^{1}$ Schulz has la. ${ }^{2}$ So Layard. ${ }^{3}$ So Layard.

    - So Layard.
    ${ }^{5}$ So Layard. Schulz has tar.
    ${ }^{6}$ Layard has ra. The character may be da or ta. See line 80.

[^212]:    ${ }_{1}$ These two characters probably represent only one, perhaps $u z$.
    ${ }^{2}$ So Layard; the word is omitted by Schula.

[^213]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ So Layard; Schulz omits.
    ${ }^{3}$ So Layard. For the completion of the sentence see 1. 25.
    ${ }^{4}$ So Layard.
    ${ }^{5}$ So Layard.
    ${ }^{6}$ So Layard.
    ${ }^{7}$ So Layard.
    ${ }^{8}$ More probably $Y \rightarrow$ 'in one year.'

[^214]:    ${ }^{2}$ So Layard. Schulz has sí.
    4 So Lajard. Schulz has $a$.

[^215]:    ${ }^{1}$ So Layard．${ }^{2}$ So Layard．Schulz has za．${ }^{3}$ Should probably be sio．

[^216]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ So Layard.
    ${ }^{3}$ Layard has $a$.
    4 Schulz has ma. ${ }^{5}$ Layard has ni.
    ${ }^{6}$ Su Layard.
    ${ }^{7}$ Schulz places a lacuna after $a$; not so, however, Layard. ${ }^{8}$ So Layard.
    ${ }^{9}$ So Layard. Schulz has pa. With this reading the translation would be 'out of what belongs to the country of Gurkus.' But there is no other example of the adjective in -ue being used thus absolutely.
    ${ }^{10}$ Schulz has tar.

[^217]:    - Layard has se.
    ${ }^{2}$ So Layard. $\quad{ }^{3}$ Layard has e.
    ${ }^{4}$ So Layard. Schulz has i. We should probably read $Y$ - 'in one year.'

[^218]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ So Layard.

[^219]:    ${ }^{1}$ Layard has ni. Perhaps we ought to read $=\approx Y$.
    ${ }^{2}$ So Layard.
    ${ }^{3}$ Schulz and Layard have

[^220]:    ${ }^{1}$ So Larard.
    ${ }^{2}$ For the country of Bias see xxxrii. 8.
    ${ }^{3}$ See the same passage.
    ${ }^{4}$ Layard's copy marks no lacuna here, but the verb is required by both sense and grammar.

[^221]:    ${ }^{1}$ So Layard, but xliii. 48 shows that we must read Y.
    : Layard has $k i n i$, but see $\mathbf{z l i x . ~} 17$.
    ${ }^{3}$ See p. 56 .

[^222]:    

[^223]:    ${ }^{1}$ Layard has e.

[^224]:    ${ }^{1}$ So squeeze and Layard; Schulz has e.
    ${ }^{2}$ Schulz has la, Layard se, the squeeze $t i$.
    ${ }^{3}$ So Layard. ${ }^{4}$ So Layard.
    ${ }^{5}$ So squeeze and Layard; Schulz has lu.
    ${ }^{6}$ So Layard.

    - Schulz has la.
    ${ }^{7}$ So Schulz; Layard has khi.
    ${ }^{10}$ For the restorations of the text see No. xliv.

[^225]:    ${ }^{1}$ So Layard.
    ${ }^{2}$ So Layard; Schulz has e.
    ${ }^{3}$ Restored from li. iii. 4.

[^226]:    ${ }^{1}$ Schulz has gis, Layard na. ${ }^{2}$ So Layard, Schulz has $e$.
    ${ }^{3}$ So Layard and Robert ; Schulz has ma.
    ${ }^{4}$ Schulz has sit.

[^227]:    ${ }^{1}$ So Layard and Robert．

[^228]:    ${ }^{2}$ Schulz has la．

[^229]:    ${ }^{1}$ Layard has $e$.
    ${ }^{2}$ So Schulz and Layard; Robert and Sarkisian have n.
    ${ }^{3}$ So Schulz and Layard; Robert has e-ni, Sarkisian ni.
    ${ }_{6}$ So Schulz and Layard; Robert and Sarkisian have ni. ${ }^{5}$ Layard has du.
    ${ }^{6}$ So Robert and Sarkisian; Schulz and Layard have ir.
    ${ }^{7}$ So Layard; Schulz has $\approx a$.

[^230]:    ${ }^{1}$ So Layard.
    2 So Layard.

[^231]:    ${ }^{1}$ So Layard.
    ${ }^{3}$ So Layard; Schulz has $i$.
    ${ }^{5}$ Schulz has $e$.
    ${ }^{2}$ So Layard.
    ${ }^{4}$ Schuli and Robert have XXXM.

[^232]:    ${ }^{1}$ Omitted by Grotefend.
    2 The copy has da.

[^233]:    ${ }^{1}$ So Grotefend.
    ${ }_{5}{ }^{3}$ Perhaps $\pi \mathrm{e}$ should read $b i$.
    5 Omitted by Grotefend.
    ${ }^{7}$ Grotefend has za.
    ${ }^{2}$ Omitted by Grotefend.
    ${ }^{4}$ Grotefend has si.
    ${ }^{6}$ The copy has la.

[^234]:    ${ }^{1}$ The copy has da.
    2. Grotefend has $k u$.
    ${ }^{3}$ The copy has ma; but see $x \times x .15$.

[^235]:    ${ }_{1}$ The copy has $\rightarrow-Y$ an.
    ${ }^{2}$ The copy has se-ri.
    ${ }^{3}$ The copy has la-me. For the restoration of the text, see sliv. 8.
    4 Omitted by Grotefend. ${ }^{5}$ The copy has $\rightarrow Y$. ${ }^{6}$ The copy has $Y$.

[^236]:    ${ }^{1}$ Schulz has se.
    ${ }^{2}$ Sandwith has at-iii.

[^237]:    Y Ru-śa-a-ni
    belonging to Ruśas

[^238]:    ${ }^{1}$ Clearly for ulgusiyani-e-di-ni ; see p. 655.

[^239]:    1 The copy seems to have ga.
    ${ }^{2}$ This character must be wrong. Perhaps e should be read.

[^240]:    ${ }^{1}$ Rawlinson (Journ. R.G S. x. (1841) p. 21) says that the pillar of Keli-shin, "which is upon a little eminence by the side of the road, and nearly at the top of the pass," is "a pillar of dark-blue stone, 6 feet in height, 2 in breadth, and 1 in depth, rounded off at the top and at the angles, and let into a pedimeut, consisting of one solid block of the same sort of stone, 5 feet square and 2 decp. On the broad face of the pillar fronting the E. there is a Cuneitorm inscription of fortr-one lines, but no other trace of sculpture or derice is to be seen." "On breakiog away the sheet of icicles with which the surface of the stone was covered, the upper half of the inscription was shown to be irrecorerably obliterated, and the lower half also to be much destroyed." Keli-Shin signifies in Kurdish "the blue pillar." At the distance of five hours from this pass, "there is a precisely similar pillar, denominated also Keli-Shin, upon the summit of the second range, which overlooks the town and district of Sidek. This also is engraved with a long Cuneiform inscription; and as it is said to be in far better preservation than the one at Cshneï, it would be very desirable to examine and copy it." As for the pillar of Keli-Sipan, or "white pillar," Sir H. Rawlinson describes it as "a rude column of white stone, 12 feet in height, 3 feet in breadth, and $1 \frac{1}{2}$ feet in depth, fixed in a pediment, and differing only in size and colour and the want of an inscription from "the pillar of Keli-Shin Ushneï." "It faces also W.N.T. instead of due E., like the Keli-Shín. There are some rude figures like a horseshoe engraved upon different parts of it, which had been talen by the Kurds for writing. Between this pillar and the village of Legwin, there is another, which is also called Keli-Sipann, but it has been thrown down, and is of smaller dimensions even than the Keli-Shin; this, likewise, on the three sides which are exposed, is without inseription." The first-named pillar of Keli-Sipan is two miles from Khorenj, overlooking the plain of Lahijan, at the source of the Little Zab, and due south of Lake Urumiyeh. The pass of Kelishin, on the other hand. leads eastward from Rowandiz into the plain of Cshneï on the south-western shore of the lake.

[^241]:    ${ }^{1}$ Or ri.
    ${ }^{2}$ Perhaps al.

[^242]:    ${ }^{1}$ Possibly $d a$.
    2 Probably ri.

[^243]:    ${ }^{1}$ The last sentence of the note on $\nabla .20$ (p. 486) must accordingly be erased.
    ${ }^{2}$ The dental, however, it must be remembered, is omitted in iulie or iudae in another inscription of Menuas, xxxi. 28.

[^244]:    1 Ft. It may be meant for sum or even tur, or perhaps for the two characters $t a b$ and $r u(d u)$.

[^245]:    ${ }^{1}$ Sce Burnouf, Mémoire sur deux Inscriptions cunéiformes, p. 176.

[^246]:    ${ }^{1}$ The text as copied by Schulz is published in the Journal asiatique, 1840. Another copy of the Persian text by Boré has been giren by Sir H. Rawlinson in the J. R. A. S. Vol. X. p. 334. For Westergaard's copy of the "Protomedic" text as far as line 21 see Norris, in the J. R. A. S. Vol. XV. p. 156. For the Babylonian text see Oppert, Expédition scientifique en Mésopotamie, ii. 2. It reads : a-na e-bis liv-sut tâ tsalam-ma ina mukh-khi ul is-dhu-ur' (he gave command) to make his tablet and an image; thereon he did not write.' Liv $\left(\left\langle V^{-}\right)\right.$is the lav 'tablet' of the older Assyrian period. Oppert has already recognized that $<$ is here the ideograph of tsalamu 'image,' as at Naksh-iRustem (26), ma being the phonetic complement. See Bezold: Die Achämenideninschriflen, p. 76.

[^247]:    ${ }^{1}$ The only character not found in the Amardian texts is dhu in its later Bahylonian form. The inscription is circular, and reads: Ku-'ar-hu-man YYF ('the king') Man-dhu-mas. The sound kw seems to have been known in Kappadokia and Kilikia. Among the proper names found in the inseriptions of Hamaxia are Koúas (C. I. G. 4401 , etc.), 'Oßparүoúess, Kov́a入ıs, Kı $\delta a \mu$ uv́aбts, and 'Ettovaris, and at Selindy we have Kovades (C. I. G. 4424). The inscription probably belongs to the time of Kyros, when the system of cunciform writing employed in Khapirti or Amardia (the plain of Mal Amir) was likely to have been carried beyond its original boundarics, as Khapirti formed part of the ancestral dominions of Kyros, and its language and writing accordingly were those of the conqueror of Western $A$ sia.

[^248]:    1 I ought to have mentioned in my sketch of Vannic grammar that participial adjectives in -s's resembled those in -khinis in discarding the accusatival -m. Indeed they went further, as neither the substantive which preceded the adjective in -sis nor the adjective itself in some instances took -ni. Thus we find inani mus'i 'royal city,' mu adais'i (li. 4). On the other hand, we have ini asê badus'ie, Menua-ni . . . alusie, and in the dative plural mas'i-ni. In my list of Yannic characters, also, kab must be expunged. I now feel convinced that in xxxii. 7 E- represents kar. Accordingly, the word for 'stone' will be karbis and not kabbis. I have to add, too, that in one passage (xxxi. 21) A $u_{u}$ is replaced by $\boldsymbol{\text { E }} \boldsymbol{2} Y$. In the account of the verb, moreover, I have omitted to notice the causative conjugation formed by the suffix $s u$, $s a$ (as in kharkhar-su-bi, kharkhar-sa-bies). Sis probably signified originally 'to cause,' 'make.' The noun-suffix -tsi, I am now inclined to think, contains the idea of 'all.'
    ${ }^{2} H_{u}$ and $u$ are arranged alike under $u$, and $s$ and $t s$ follow $s$. Otherwise the order of the letters in the Latin alphabet is followed. $K h$ follows $k$ and $k . \quad D / 6$ comes after $d$.

[^249]:    ${ }^{1}$ It is possible that aris is the full word，from which arani is formed．－ra would stand to the suffix－ri as $-n a$ to $-n i$ and $-k a$ to $-k i$ ．If we compare giss－ uris，$e$－uris，the root would be $a$＇to speak，＇so that＇man＇would be＇the speaker．＇The legend of Ara（Aras）seems to show that the word aras actually existed in Vannic（pp．414－416）．The solar hero of Van might as well be called ＇the man＇as his Phœnician representative Adonai，Adônis＇the lord．＇Compare also the name of the king Arame（s）or Arave（s），perhaps Ara－hu－e－s（p．405）．

[^250]:    1 A father sometimes kills himself because a criminal act has been committed by a member of his family.
    ${ }^{2}$ By l'rasāda is meant the remains of food presented as an offering to a god. Hcre the word must be either prasädi or prasidi, from prasädin.

[^251]:    ${ }^{1}$ This is in strict unison with the present Hindū practice of keeping women ignorant. That women in ancient times were not only educated, but sometimes erudite and celebrated as religious teachers, is proved by the example of Maitreyi, Gärgì and others.

[^252]:    ${ }^{1}$ This precept furnishes an interesting proof of the tolerant character of Vaishṇarism, and of its harmony with the pantheism of the Vedanta.

[^253]:    ${ }^{1}$ It is evident from this verse, as from verse 47, that although Vaishnavas give preferential worship to Vishṇu, they are really Pantheists in the sense of honouring other deities, as manifestations of the Supreme Being. It may be observed that although five deities are here mentioned, Gaṇapati and Pārvatī are connected with Siva, as the Sun is with Vishṇu.

[^254]:    ${ }^{1}$ Of these only six are now generally performed, viz. : -1 , the birth-ceremony, or tonching the tongue of a new-born infant with clarified butter, etc.; 2, the name-giving ceremony on the tenth day; 3 , tonsure; 4 , induction into the privileges of the twice-born, by investiture with the saered thread; 5 , solemu return home from the honse of a preceptor after completing the preseribed course of study ; 6, marriage. See Indian Wisdom, p. 246.
    ${ }^{2}$ The stx daily duties (called Nitya-karman), according to Paräsiara, are:1, bathing; 2, morning and evening prayer (sandhyä); 3, repetition of sacrel texts; 4, offerings to fire (homa) ; 5 , worship of ancestors; 6 , worship of the gods. The six daily acts enjoined by Manu are different. See Indian IVistom, p. 244.
    ${ }^{3}$ I commend this list to the attention of those European scholars who wish to be guided by Indian anthorities in determining the real "sacred books" of Iudia.

[^255]:    ${ }^{1}$ This rerse proves that in their philosophical ideas the Srāmi-Närāraṇa sect are followers of the Rāmānuja sect. Compare verse 100.

[^256]:    ${ }_{1}{ }^{1}$ With reference to this rerse compare Manu's directions to Kings (Books rii. aud riii.), and the precepts in the Vigraha chapter of the Hitopadesa.
    ${ }^{2}$ Compare Manu, v. 154 .

[^257]:    ${ }^{1}$ This ceremony, which partly consists in throwing portions of food into the fire, before dinner, as an offering to all the deities, will be fully described in my: new work on "Religious Thought and Life in Iudia," to be published by Mr. Murray.
    ${ }^{2}$ We may notice that there is no little repetition in this Book of instiuctions, especially in euforcing the duty of keeping clear of all feminine seductions.

[^258]:    ${ }^{1}$ The story is told in Tishṇu-purana, ii. 13. He feigned idiocr, that he might not be troubled with worldly society and might so give his undivided attention to derotional exercises.

    2 see note to rerse 91.

[^259]:    ${ }^{1}$ The Purānas divide all men into two classes: those whose nature is divine, and those whose nature is demoniacal.

[^260]:    ${ }^{1}$ Gigliato des jonischen Turkomanen Fürsten Omar-beg: Numismatische Zeitschrift, vol. ii. pp. pp. 524-538, and vol. ix. pp. 207-214.
    ${ }^{2}$ Beiträge zur muham. Münzkunde : Sitzungsberichte der phil.-hist. Classe der K. Akademio der Wissenschafteu, rol. Lxxiii. p. 129 ff .

[^261]:    ${ }^{1}$ The question whether it was Ishák or Khidr who was reigning at the time of Báyezid's eonquest of Sáru-khán is discussed by Dr. Bergmann, who decides in favour of the former. The Turkish authorities are divided on this point. Some place Ishak's death in 790.
    ${ }^{2}$ In 805 to 806 Mohammad I. retook Sára-khan and Aydín, and reduced Kermiyfu to vassalage. Apparently he left Juneyd in possession of at least part of his dominions.

[^262]:    ${ }^{1}$ In another place Sa'd-ed-din says Ilyás died in 824.

[^263]:    ${ }^{1}$ See Prof. Douglas, The Progress of Chinese Linguistic Discavery, "The Times," April 20, 1880; reprinted in Trübner's American, European, and Oriental Literary Record, new series, vol. i. pp. 125-127, and my China and the Chinese: their early history and future prospects, in the Journal of the Society of Arts, July 16, 1880. Early History of the Chinese Civilization (with plate of old Chinese characters borrowed from the pre-cuneiform writing), Lnadon, 1880 (Trübner).
    ${ }^{2}$ Tid. an anonymous paper on Chinese and Babylonian Literature in Quarterly Review of July, 1S82; and Prof. Douglas's charming volume on China (London, 1882, Sro.). Vid. also the valuable rep rert to Phe Phological Socitty, 1882, on The Progress of Assyriology, by Mr. T. G. Pinches.
    ${ }^{3}$ Published in The dehencerm, Jan. 21, 1882, as follows: "In company with the general body of Sinologists, I read with pleasure in your issue of the 7 th your announcement that Dr. Legge's translation of the 'Yh King,' for the 'Sacred Books of the East' series, will be out about Easter. But the paragraph adds: 'Curiously enough, some Chinese scholars pretend that the book is mritten in the Accadian language.' As I was the first Sinologist to point out, two years ago, that the early Chinese cirilization had been borrowed by the so-called Hundred families from the south of the Caspian Sea, I fear that the rather wild statement that the ' Ih King' was written in the Akkadian language may be confused with my orn riews, and I am, therefore bound to protest against it. As the Chinese scholars, both Euglish and Chinese, to whom I had occasion to

[^264]:    ${ }^{1}$ The italieised words are borrowed from Dr．Legge＇s Preface，in wbich we read also：＂There is hardly another work in the aneicnt literature of China that presents the same difficulties to translate．＂See pp．xiii，xir，xw．

    2 欽定四庫全書總目．Cf．E．C．Bridgman，Chinese Chresto－ mathy（Macao，1841，4to．），p．xvii．
    ${ }^{3}$ The K＇ang II＇s Imperial edition of the $I^{7} h$－ Fing，which appeared in 1715， eontains quotations from the commentaries of 218 scholars，and these are（we take the words of Dr．Legge，Introd．p．3）hardly a tenth of the men who have tried to interpret this remarkable book．
    ${ }_{4}$ The book opens with the $1 \%$ ．King，the first of the elassics，as do all the biblio－ graphies，from the catalogue of the Han period downwards．
    ${ }^{5}$ Sec Jotes on Chinese Literuture（Shanghae，1867，4to．），p． 1.
    －In the ordinary phraseology of the 17 ，the lower one is called 直；and the upper one 情。The lines are：the 陽 yang，㴊 strong，t $=9$ ，entire，un－ divided，and the 险 $y n$ ，柔 wak，六 $=0$ ，broken，divided．

[^265]:    ${ }^{1}$ In a day of misdom，a knorn Sinologist，Dr．Legge，in his version of the Tso－chuen（Clin．Class．vol．r．p．169a），has made upon a quotation of the Yh－King this comment：＂But it seems to me of no use trying to make out any principle of reason in passages like the present．＂This view is the true one，but we are sorry that the learned missionary，to whom we are indebted for a valuable though unequal version of several of the Chinese classics，has not stuck to it and refrained from publishing his paraphrase of the Yh－King．Speaking（The Yí－ King，Pref．p．xv）of the literal Latin version done by PP．Regis，De Mailla， and Du Tartre，and also of his own first version，Dr．Legge writes：＂But their version is all but unintelligible，and mine was not less so．＂However， Prof．Regis and his coadjutors had at their disposal all the help that Chinese lore could throw upon the $Y h$ ．

[^266]:    ${ }^{1}$ Li Tai Wang nien piao，p． 5.
    ${ }^{2}$ Tai Hao＝＇great whitish，＇also the＇western region＇：$-F u h$－$h$ i，also written． in different manners 庖犧，密犧，它戲，處戲。
    ${ }^{3}$ 軆含文嘉，in Tai Ping yü lan，K．78，f． 3 。

[^267]:    ${ }^{2}$ 魏書江式傳。
    4 Vid．f． 1 v．and f． 3.
    3 張懐忂書断。
    ${ }^{6}$ Vid．Tai Ping L＇ï Lan，K．78，f． 5 v．Vid．n．3，following pago．

[^268]:    ${ }^{1}$ Hi－lze，part ii．ch． 7 and 11.

[^269]:    ${ }^{1}$ The period of middle antiquity，according to Chinese commentators，begins with the rise of the Chöu in the twelith century b．c．，and it finishes at the Confucian Era．But we are not sure that this explanation has not been made up for the occasion of this passage．
    ${ }^{2}$ See Kizen 4，f． $5 \mathbf{v}$ ．
    ${ }^{3}$ It seems to me that we cannot translate here，othermise than considering $亡$ as haring its meaning $=$ 於 ；else the phrase would be in contradiction with the facts certainly known to Se－ma Tsien and his father，of the multiplication of the

[^270]:    Kwas before the time of Wen Wang．For this manner of translating Z see Julien，Syntaxe nouvelle，vol．i．p．159，and Legge＇s Chinese Classics，passim． If my translation of this phrase were not the right one，how is it that I＇an Ku has not repeated the same thing，but gives a statement which is much moro in accord－ ance with my translation？However，it is rather unsatisfactory．
    ${ }^{1}$ Vid．前 漢 書，Kiuen 30，f． 2.
    ${ }^{2}$ Vid．She hí，K．47，Kung tze She Kia，f． 24 v．
    ${ }^{3}$ For the use of the same word with the same meaning in tho same chapter， seo ibid，f． 23 v．

    4 These，with the 序 卦 and 雜卦，are all the appendixes of the $\mathbf{I}$ ．
    ${ }^{6}$ Dr．Leggo，Yî King，Introd．p． 26.

[^271]:    ${ }^{1}$ Tso Chuen，Duke Ch＇ao，2nd year．Legge edit．p．583，translates：－＿＂When he looked at the（various）documents in the charge of the great historiographer，and the Ch＇un Ts＇iew of Loo，he said，＇The institutes of Chow are all in Loo．Now， indeed，I know the virtue of the Duke of Chow，and how it was that（the House of）Chow attained to the Royal dignity．＇＂

[^272]:    ${ }^{1}$ One of the most striking passages from the Tso－chuen，justifying all that we hare stated，is the quotation said to be from the 18th Kwa 螙，and in which are quoted meanings borrowed from the 40 th Kwa 解，in different order and with serious discrepancies of characters．This occurs during the fifteenth year of Dnke Hi ，and is not quoted as from the $\mathrm{F} h$ of Chöu．It comes obviously from the older text，previously to its arrangement by Wen Wang．
    ${ }^{2}$ He says（according to the 南海縣志琵文，k．xxv．f． 2 v．）： ＂Fuh－hi made the 64 Kwas 伏羲作六十四卦；Chöu Kung connected the words of the lines 周公係爻辭 with the main emblems與夫彖，the prognostics 占，the Kwas 卦，and the series of their mutations and explanations 變 之說 之類是也．＂
    ${ }^{3}$ Howerer，we shall be contented to quote one of the best European Sinologists who mentions the primitive text of the Yh．＂According to the Chinese belief，

[^273]:    ${ }^{1}$ I have also compiled a rocabulary of this writing，of which the principles after－ wards imitated hare been so powerful a lactor in the mental and political history of Chinese culture．
    ${ }^{2}$ The survival of pictography and hieroglyphism，which She－chöu gave to the writing by his modifications of the characters，can be fully illustrated by the two following examples．The phonetic group for＇wild country，＇＇desert，＇野，was written in Ku－Ten 桂二土 Tu＇earth，＇under 林 Lam，mod．lin，＇forest，＇ i．e．$I$ initial under $L$ final，to be read $T-L$ ，which te find still in the Corean lel and in the decayed Sinico－Annamite $d a$ ．This was all right so long as the reading was not forgotten and the colloquial remained unaltered．But then and where this agreement break up，the ideographical ralue of the combination， deprived of its phonetic reading，in the regions where had begun the phonetic decay which has turned gradually the primitive tel into the modern ye，was no more suggestive enough of the intended solitude．She－chön for the purpose of suggesting this sarageness added the ideograph for isolate（not spear）into the group，and wrote it焚（not 禁）．The proof of the early bisyllabism $T-L$ of this word is tery likely to be seen in the colloquial ye－lu（野 路），ye decayed of te．Again，the group葬＇to bury，＇＇to conceal，＇was not sufficiently expressive to the eyes；the historiographer of Chöu in framing anew the character substituted 䖵 to its central part 死＇in order to suggest＇hidden in the ground as reptiles do，＇and did not consider the phonetic expression，which was entirely thrown over by him．

[^274]:    1 And so was established officially，for political reasons，the wide gap which separates the written style from the spoken language；a difficulty of whieh the solntion gives the link of the respective evolution of speech and writing in China．

    2 The deformation undergone by the old eharaeters（in the eases of no substi－ tution）when transcribed with the small canons of fixedly shaped strokes of the $L i-s h u$ ，Siao－chusen，and finally modern style Kiai－shu，is the great difficulty which the palæographer has to overcome．It complieates singularly the graphical etymologies by apparent，but in reality false，similarities，too often accepterl as gemuine by many nneritical Chinese historians of their writing．The same com－ plication presents itself to those who study the history of the Cuncitorm characters．

    3 The ideographie determinatives aphone began since that time to be more and more extensively used；before She－Chön the process had only been initiated in a few places．At first，at least in some quarters，in order to show their non－ phonetie value，they were written smaller and rather under the character or group which they were intended to deterninate．Cf．for the determinatives灭，口，从，不，不，具，定，in the inscriptions of which the fac－
    
    

    4 ＇Itho influence of the arlvaneed civilization and the mixture of the Ongro－ Altaie early Chinese immigrants with the native populations of Clina of several states（of which the primitivo Tai or Shan was not the least important）were not

[^275]:    confined to the area of their politieal power. This deep misture which has produced the Chinese physical type and peculiar speech, and aceounts for several phonetic features common to the Clinese and many Indo-Chinese languages, as well as for the reciprocal loan of words, which amounts between the Chinese and Taï rocabnlaries to more than 30 per cent, laad begnn outside long before the extension of the Chinese political supremacy. And as to this extension, I may remark that the publication by l'rofi. Donglas in my Orientalia Antiqua, part I. of the Calendar of the Hia dynasty, which bear astronomical evidences of its genuineness 2000 в.с., points to a settlement more sonthern than afterwards under the Chöu denasty. T'he Chinese culture spread very early and extensively in the south, and more on the western than on the eastern side. The phonetic writing, propagated by the Chinese immigrants, was eagerly adopted by the active and intelligent population of the South-West. We see them at different periods of Chinese history carrying books to the Chinese court. In 1109 b.c. the Annamites had a phonetic writing, and in several instances we have tidings bearing on the existence of such writings, composed of a certain number of Chinese simple characters used accorling to the phonetic principle disnsed amoigst the Chinese, as we largely know. These simple characters, selected by progressive elimination of the less easy to draw and to combine, formed a special script, of which we know sereral offshoots, and have been, according to my views, and as far as affinities of shape and tradition are to be trusted, the Grundschrift with which has been framed that splendid monument of Brahmanic phonetic lore-the South Indian Alphabet or Lat-Pali. The North Indian :slphabet has been framed on a Semitic ground according to the sanse principles, aud this achierement has been most likely done at the same time for the two alphabets, as they bear obrious marks of reciprocal inflnence and of interual naking up. Their artificial assimilation and parallelism is obvious. The vocalic notation, howerer, seems to me to have origimated from the South Alphabet side, as bere only are found independent vowel characters, which embodied in the consonants have most likely suggested the external addition of inarks for the vocalic notation; these marks were reversed to the left for adaptation to the Northern alphabet. Mention has been lately made of a new writing found at Babylon, which by a too hasty conclusion has been on insufficient examination considered as the ancestor of the Soith Indian Alphabet. But a keen study of these two lines of writing, on a contract clay-tablet of Babylon, dated in the 23rd year of Artaxerxes, has given me a quite different result; they are the signatures in cursive Aramaic of the witnesses of the contract, excepting two who were not acquainted with writing. The interesting feature is, besides its cursive shape, that of the appended consonants, as was occasionally done in cursive Cuneiform; I cannot find any vocalic notation.

[^276]:    ${ }^{1}$ In comparing the remains of the Ku－wen text of the Classies engraved on Stone（published in the 三字石經）with the modern text，we find that noless than twenty－five per cent．of the characters have been substituted or altered through the transeriptions．
    ${ }^{2}$ The praise and censure system，whieh is so conspienously applied by the commentators of the texts of Coufucius，seems to have been really put forward by the Great Sage himself．We know that Confncius said，speaking of the Ch＇un $T s^{\prime} i u$ ：＂Its righteous decisions I ventured to make．＂．And also：＂Yes ！It is the $C h^{\prime}$＇un $T s^{\prime}$ iu which will make men know me；and it is the $C h$＇un $T s^{\prime}$ iu which will make men condemn me＂（Vid．Legge，Chin．Class．，vol．v．prol．2）．Tlis important statement has been repeated by Meneius and enlarged by him．There is no doubt about its genuineuess．Turning to the pages of the $C h \cdot u n T s^{\prime} i u$ ， ＂We experienced，says Dr．Legge（ibid），an intense feeling of disappointment． Instead of a history of events woven artistically together，we find a congeries of the briefest possible intimations of matters in which the Court and State of Ln were more or less coneerned，extending over 242 years，without the slightest tineture of literary ability in the composition，or the slightest indication of julicial opinion on the part of tho writer．＂It is a bare ephemeris．This is a difficulty which has still to be solved．The attempt by the commentators，of finding in almost

[^277]:    aware how highly artifieial is the written lauguage，and how deep is the abyss which separates it from the colloquial，modern and ancient，which，after all，is the only ono interesting for linguistie researeh．The phonetie decipherment of the old Ku－wen texts when available will enablo Sinologists to know some－ thing of the old spoken language．The readiugs，wo have found out，make it clear that the use of frequent polysyllabics or compounds did not，in the old time any more than in the present，let so much looseness in the grammatieal value and meaning of the words that was supposed to have existed．Besides that，the phonctism moro full of the seprarate words（not deeayed as now）did not present in the old spoken language so many homophones leading to coufusion，as was premised by the ancient sinologists．
    1 Vid．Mi－se，part i．seet． 79.
    ${ }^{2}$ Fid．Li－ki，ch．viii．trad．Callery，p．50，Turin，1853， 4 to．
    ${ }^{3}$ Vid．Lun－yü，ix． 8.
    ${ }^{4}$ Annong tho 1690 works quoted by the Imperial compilers of the Tai－Fing－yiu－ Lan in 977－983 are twelvo works ou the Ho－tu，two on the Loh－shu，and one on them both．

[^278]:    ${ }^{1}$ The extraordinary similarity between the Ho map and the inscriptions found in India by Mr. H. Rivett Caruac is too striking to be neglected. See his Rough Nutes on some Ancient Sculpturings on Rockis in Kameion, in Journal of the Royal Asiatic Society of Bengal, 1Sī7, vol. xlvi. pp. 1-15. I have already pointed out this similarity in my paper on The Indo-Chinese Origin of the South Indian IIriting.
    ${ }^{2}$ Vid. Shu- King, part F. bk. 22. The great precious tortoise is also mentioned as an heirloom in The Great Announcement, about 1115 b.c. See Chinese Classics, ed. Legge, iii. p. 365.
    ${ }^{3}$ Ct. my Early History of the Chinese Civilisation, p. 30.
    ${ }^{4}$ See Legge, Chinese Classics, vol. iii. p. 356 д.

[^279]:    ${ }^{1}$ It is not unlikely that something of the arrangement by Wen Wang has crept out from the temporary homonymy at his time of these two characters，Kivei－tseng with 歸 and 貞．Cf，above，$\S 2 \mathrm{n}$ ．This will be discussed in the translation．
    ${ }^{2}$ Though the text of the Krwei－Tsang 歸 蔵 seems to hare been lost of old， quotations from it were found in old literature．The work is not one of the 1690 works of which the titles are giren at the beginning of the Great Cycloprdia of 983 A．D．，the Tai Ping Iïl lun．Howerer several quotations from it are given in it，and I think it interesting to reproduce them．In the chapter on Nis Kiva女媧，we read：歸藏巨苝女滑劄張雲幕枚占之曰吉昭炤九州日月代極平均土地和合四國• In the chapter on Heang－Ti we read：歸蔵日昔黄神與炎神爭關潒鹿之野将戰筮於巫或日果哉而有各。 Vid．K．78，f．4，and K．79，f．2．On N＇u Kwa，rid．Mayer＇s Manual，p．162， n． $5 \% 1$ ．

[^280]:    ${ }^{1}$ Cf．Min tsi Ki，Luh shu t＇ung，K．iv．f． 21 v．Fu Lwan Tsiaug，Luh shu Fön Luy，s．v．
    ${ }^{2}$ In cases of single words written phonetically with two characters，these are often superposed；the under one suggesting the initial．These principles and their ulterior modifications，their demonstration and the method which I have used to find them，are explained and summarized in my paper on the Evolution of Language and Writing in China．Vid．also the notes to $\$ 23$ of the present paper．
    ${ }^{3}$ Min Tsi Ki，Luh shut＇ung，K．i．f． 29.
    4 This is one of the characters which show that the writing borrowed by the Bak people，Pölh Sing，has not always been written in perpendientar lines．As all those which had more width than height，it has been turued up from the right， and originally represented the lower part of the face，mouth，and chin，still dis－ cernible through the modern strokes．

[^281]:    ${ }^{1}$ Cf．§ 23 n．and Min Tsi Ki，Luh shu tung，K．v．f． 33.
    2 Fid．路 史，稌 論，K．2，f． 2 v．

